

Dawnflex TPU DN-2095-T2

|                                          |         |                   |            |  |  |  |  |
|------------------------------------------|---------|-------------------|------------|--|--|--|--|
|                                          |         |                   |            |  |  |  |  |
|                                          |         |                   |            |  |  |  |  |
|                                          |         |                   |            |  |  |  |  |
|                                          |         |                   |            |  |  |  |  |
|                                          | 25kg/   |                   |            |  |  |  |  |
|                                          |         |                   |            |  |  |  |  |
|                                          |         |                   |            |  |  |  |  |
|                                          |         |                   |            |  |  |  |  |
|                                          | 1.22    | g/cm <sup>3</sup> | ASTM D792  |  |  |  |  |
|                                          | 95 2    | A                 | ASTM D2240 |  |  |  |  |
|                                          | 45      | MPa               | ASTM D412  |  |  |  |  |
| 100%                                     | 11      | MPa               | ASTM D412  |  |  |  |  |
| 300%                                     | 20      | MPa               | ASTM D412  |  |  |  |  |
|                                          | 450     | %                 | ASTM D412  |  |  |  |  |
|                                          | 145     | KN/m              | ASTM D624  |  |  |  |  |
|                                          |         |                   |            |  |  |  |  |
| 0.05%                                    |         |                   |            |  |  |  |  |
|                                          |         |                   |            |  |  |  |  |
|                                          |         |                   |            |  |  |  |  |
| 100                                      |         |                   |            |  |  |  |  |
| 100                                      |         |                   |            |  |  |  |  |
|                                          | /       |                   | /h         |  |  |  |  |
|                                          | 90-100  |                   | 2-4        |  |  |  |  |
|                                          |         |                   |            |  |  |  |  |
|                                          |         |                   |            |  |  |  |  |
|                                          | 225-235 |                   | 205-215    |  |  |  |  |
|                                          | 220-230 |                   | 200-210    |  |  |  |  |
|                                          | 215-220 |                   | 195-205    |  |  |  |  |
|                                          | 210-215 |                   | 190-200    |  |  |  |  |
| SDS                                      |         |                   |            |  |  |  |  |
| 1.<br>2.                                 |         |                   |            |  |  |  |  |
|                                          |         |                   |            |  |  |  |  |
|                                          |         |                   |            |  |  |  |  |
| : . 265703                               |         |                   |            |  |  |  |  |
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## Dawnflex TPU DN-2095-T2

| General information                                                                                                                                                                                                                                                                                      |                                                                               |                     |               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------|---------------|
| Material Properties                                                                                                                                                                                                                                                                                      | High transparency, low risk of precipitation, fast molding, and high strength |                     |               |
| Application Market                                                                                                                                                                                                                                                                                       | Overmolding, modification, electronic injection molding, cable                |                     |               |
| Appearance Shape                                                                                                                                                                                                                                                                                         | Transparent particles                                                         |                     |               |
| Packing Specifications                                                                                                                                                                                                                                                                                   | 25 kg/bag                                                                     |                     |               |
| Processing Method                                                                                                                                                                                                                                                                                        | Injection   Extrusion                                                         |                     |               |
| Physical property parameters                                                                                                                                                                                                                                                                             | Typical value                                                                 | Unit                | Method        |
| Density                                                                                                                                                                                                                                                                                                  | 1.22                                                                          | g/cm <sup>3</sup>   | ASTM D792     |
| Shore Hardness                                                                                                                                                                                                                                                                                           | 95   2                                                                        | A                   | ASTM D2240    |
| Tensile Strength                                                                                                                                                                                                                                                                                         | 45                                                                            | MPa                 | ASTM D412     |
| 100% Modulus                                                                                                                                                                                                                                                                                             | 11                                                                            | MPa                 | ASTM D412     |
| 300% Modulus                                                                                                                                                                                                                                                                                             | 20                                                                            | MPa                 | ASTM D412     |
| Elongation at Break                                                                                                                                                                                                                                                                                      | 450                                                                           | %                   | ASTM D412     |
| Tear Strength                                                                                                                                                                                                                                                                                            | 145                                                                           | KN/m                | ASTM D624     |
| Processing suggestions                                                                                                                                                                                                                                                                                   |                                                                               |                     |               |
| <b>Processing conditions</b><br>Drying Instructions: Need drying the granules before make molding, excessive moisture will lead materials bad extrusion surface, mechanical performance reduction and bad surface appearance. Moisture content request below 0.05%, suggesting drying as follow process: |                                                                               |                     |               |
| Drying conditions                                                                                                                                                                                                                                                                                        | Drying temperature/                                                           |                     | Drying time/h |
|                                                                                                                                                                                                                                                                                                          | 90-100                                                                        |                     | 2-4           |
| Processing temperature                                                                                                                                                                                                                                                                                   |                                                                               |                     |               |
| Injection                                                                                                                                                                                                                                                                                                | Set Value                                                                     | Extrusion           | Set Value     |
| Nozzle (   )                                                                                                                                                                                                                                                                                             | 225-235                                                                       | Nozzle (   )        | 205-215       |
| Front Barrel (   )                                                                                                                                                                                                                                                                                       | 220-230                                                                       | Front Barrel (   )  | 200-210       |
| Middle Barrel (   )                                                                                                                                                                                                                                                                                      | 215-220                                                                       | Middle Barrel (   ) | 195-205       |
| Rear Barrel (   )                                                                                                                                                                                                                                                                                        | 210-215                                                                       | Rear Barrel (   )   | 190-200       |
| <b>Healthy   Safety   Environmental:</b> Take SDS for reference                                                                                                                                                                                                                                          |                                                                               |                     |               |
| <b>Extra information</b><br>1.The above properties are typical performance which is not regarding as technical index or agreement.<br>2.Above instructions for reference only, different equipment might have difference parameters, please adjust accordingly with different mold and product shape.    |                                                                               |                     |               |
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