

# Dawnflex TPU DN-E195FR-60

## 21111706

### FEATURES

A kind of flame retardant thermoplastic polyurethane (TPU) materials, with good physical properties, high transparency, excellent elasticity, good processing fluidity and fast forming speed performances, is mainly used for injection products extrusion products and calendered products. It is non-toxic and environmentally friendly material, and completely recyclable.

| General information                                                                                                                                                                                                                                                     |                     |                                                                    |                           |               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------|---------------------------|---------------|
| Application                                                                                                                                                                                                                                                             |                     | Injection products      Extrusion product      Calendered products |                           |               |
| RoHS                                                                                                                                                                                                                                                                    | RoHS compliance     | Complied                                                           |                           |               |
| Color                                                                                                                                                                                                                                                                   |                     | Colorless, transparent                                             |                           |               |
| Appearance                                                                                                                                                                                                                                                              |                     | Particle   Calendered products                                     |                           |               |
| Processing method                                                                                                                                                                                                                                                       |                     | Injection                                                          | Extrusion      Calendered |               |
| Revision period                                                                                                                                                                                                                                                         |                     | 2021-11-30                                                         |                           |               |
| Performace parameters                                                                                                                                                                                                                                                   |                     | Typical value                                                      | Unit                      | Method        |
| Density                                                                                                                                                                                                                                                                 |                     | 1.160                                                              | g/cm³                     | ASTM D792     |
| Shore Hardness                                                                                                                                                                                                                                                          |                     | 95.7                                                               | A                         | ASTM D2240    |
| Tensile strength                                                                                                                                                                                                                                                        |                     | 31.1                                                               | MPa                       | ASTM D412     |
| 100%                                                                                                                                                                                                                                                                    | 100% proof strength | 12.87                                                              | MPa                       | ASTM D412     |
| 300%                                                                                                                                                                                                                                                                    | 300% proof strength | 19.08                                                              | MPa                       | ASTM D412     |
| Elongation at break                                                                                                                                                                                                                                                     |                     | 579.39                                                             | %                         | ASTM D412     |
| Tear strength                                                                                                                                                                                                                                                           |                     | 141                                                                | KN/m                      | ASTM D624     |
| Moisture content                                                                                                                                                                                                                                                        |                     | 0.05                                                               | %                         | ASTM D4019    |
| Flammability                                                                                                                                                                                                                                                            |                     |                                                                    |                           |               |
| 1.6mm verticle burning, 1.6mm                                                                                                                                                                                                                                           |                     | V-0                                                                |                           | UL94          |
| Processing conditions                                                                                                                                                                                                                                                   |                     |                                                                    |                           |               |
| 0.05%                                                                                                                                                                                                                                                                   |                     |                                                                    |                           |               |
| 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 |
|                                                                                                                                                                                                                                                                         |                     | 100                                                                |                           | 2-4           |
| 100                                                                                                                                                                                                                                                                     |                     | 100                                                                |                           |               |
| If drying temperature over than 100   , it might cause materials blocking in barrel zone; if use moisture analysis meter, the temperature setting should be on 100   .                                                                                                  |                     |                                                                    |                           |               |



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| - | - | 195-210 | 210-220 | 215-225 | 225-235 | 35-50 |

Extra information

1.
- The above properties are typical performance which is not regarding as technical index or agreement.
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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