

Wanthane® WHT-2195

Thermoplastic Polyurethane Elastomer (Polycaprolactone)

Wanhua Chemical Group Co., Ltd.

Message:

WHT-2195 is polycaprolactone-based TPU for injection molding applications, supplied in form of transparent, translucent, colorless or slightly yellowish pellets with Excellent strength and abrasion resistance

Applications:

High Quality Hydraulic tube, seals, Gaskets, Wheels, and Castors

| General Information | | | |
|------------------------------|-----------------------------|-------------------|-------------|
| Features | Good Abrasion Resistance | | |
| | Good Strength | | |
| Uses | Gaskets | | |
| | Seals | | |
| | Tubing | | |
| | Wheels | | |
| Appearance | Colorless | | |
| | Translucent | | |
| | Transparent - Slight Yellow | | |
| Forms | Pellets | | |
| Processing Method | Extrusion | | |
| | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 1.20 | g/cm ³ | ASTM D792 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore A) | 96 | | ASTM D2240 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Stress | | | ASTM D412 |
| 100% Strain | 10.0 | MPa | |
| 300% Strain | 19.0 | MPa | |
| Tensile Strength | 31.0 | MPa | ASTM D412 |
| Tensile Elongation (Break) | 490 | % | ASTM D412 |
| Tear Strength | 125 | kN/m | ASTM D624 |
| Thermal | Nominal Value | Unit | Test Method |
| Glass Transition Temperature | -35.0 | °C | ASTM D3417 |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 90.0 to 100 | °C | |

| | | |
|-----------------------|---------------|------|
| Drying Time | 3.0 to 4.0 | hr |
| Rear Temperature | 200 | °C |
| Middle Temperature | 205 | °C |
| Front Temperature | 210 | °C |
| Nozzle Temperature | 215 | °C |
| Injection Pressure | 65.0 | MPa |
| Extrusion | Nominal Value | Unit |
| Drying Temperature | 100 to 110 | °C |
| Drying Time | 3.0 to 4.0 | hr |
| Cylinder Zone 1 Temp. | 195 | °C |
| Cylinder Zone 3 Temp. | 205 | °C |
| Cylinder Zone 5 Temp. | 210 | °C |
| Die Temperature | 205 | °C |

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