

WanBlend® WHT-8180M

Thermoplastic Polyurethane Elastomer (Polyether)

Wanhua Chemical Group Co., Ltd.

Message:

WHT-8180M TPU are polyether-based TPU, supplied in form of semitransparent or opaque, colorless, white or black pellets with high tear strength, outstanding abrasion resistance, hydrolysis resistance and low temperature flexibility. Its product has matt surface.

Applications:

- Extrusion - wire and cable
- Extrusion - hose & tube, belt and film &sheet.

| General Information | | | |
|------------------------------|-----------------------------|-------------------|-------------|
| Features | Good Abrasion Resistance | | |
| | Good Strength | | |
| | Hydrolysis Resistant | | |
| | Low Temperature Flexibility | | |
| Uses | Belts/Belt Repair | | |
| | Film | | |
| | Hose | | |
| | Sheet | | |
| | Tubing | | |
| | Wire & Cable Applications | | |
| Appearance | Black | | |
| | Opaque | | |
| | White | | |
| Forms | Pellets | | |
| Processing Method | Extrusion | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 1.08 | g/cm ³ | ASTM D792 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore A) | 78 to 82 | | ASTM D2240 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Stress | | | ASTM D412 |
| 100% Strain | 4.00 | MPa | |
| 300% Strain | 7.50 | MPa | |
| Tensile Strength | 30.0 | MPa | ASTM D412 |
| Tensile Elongation (Break) | 620 | % | ASTM D412 |
| Tear Strength | 75.0 | kN/m | ASTM D624 |
| Extrusion | Nominal Value | Unit | |

| | | |
|-----------------------|-------------|----|
| Drying Temperature | 90.0 to 100 | °C |
| Drying Time | 4.0 | hr |
| Cylinder Zone 1 Temp. | 170 | °C |
| Cylinder Zone 3 Temp. | 180 | °C |
| Cylinder Zone 5 Temp. | 190 | °C |
| Die Temperature | 175 | °C |

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