

ESPOLEX WT521

Thermoplastic Polyolefin Elastomer

Sumitomo Chemical America, Inc.

Message:

ESPOLEX WT521 is a polyolefin thermoplastic elastomer (TPO (POE)) product. It can be processed by injection molding and is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Typical application areas are: automotive industry.

| General Information | | | |
|---|---------------------------------|-------------------|-------------|
| Uses | Application in Automobile Field | | |
| | Car interior equipment | | |
| | | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.880 | g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 5.0 | g/10 min | ASTM D1238 |
| Mechanical | Nominal Value | Unit | Test Method |
| Flexural Modulus | 500 | MPa | ASTM D790 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Strength ¹ (Break) | 15.0 | MPa | ASTM D412 |
| Tensile Elongation ² (Break) | 470 | % | ASTM D412 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (-40°C) | No Break | | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Brittleness Temperature | < -60.0 | °C | ASTM D746 |
| Injection | Nominal Value | Unit | |
| Processing (Melt) Temp | 199 - 243 | °C | |
| Mold Temperature | 21.1 - 48.9 | °C | |
| Injection Rate | Fast | | |
| Back Pressure | 0.345 - 0.689 | MPa | |
| Injection instructions | | | |
| Injection Pressure: HighPack/Hold Pressure: 40-70% of Inj PressScrew RPM: SlowPart Draft: 3-6° per sideTool Surface Finish: Light Texture | | | |
| NOTE | | | |
| 1. | C mold, 500 mm/min | | |
| 2. | Mouth die C, 500 mm/min | | |

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

