

Monprene® SP-14268

Thermoplastic Elastomer

Teknor Apex Company

Message:

Monprene® SP-14268 is a thermoplastic elastomer (TPE) material. This product is available in the Asia-Pacific region and is processed by extrusion or injection molding.

Typical application areas include:

- Handle
- safety equipment
- packing
- kitchen utensils
- engineering/industrial accessories

| General Information | | | |
|--|----------------------------------|-------------------|-------------|
| Uses | Safety equipment | | |
| | Handle | | |
| | Packaging | | |
| | Kitchen utensils | | |
| | Washer | | |
| | Pipe fittings | | |
| | Sporting goods | | |
| | Shell | | |
| | Stationery | | |
| | Consumer goods application field | | |
| Appearance | Natural color | | |
| | Particle | | |
| Forms | | | |
| | | | |
| Processing Method | Extrusion | | |
| | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.01 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (200°C/5.0 kg) | 1.0 | g/10 min | ASTM D1238 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness | | | ASTM D2240 |
| Shaw A | 70 | | ASTM D2240 |
| Shaw A, 5 seconds | 68 | | ASTM D2240 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Stress | | | ASTM D412 |
| 100% strain | 3.00 | MPa | ASTM D412 |

| 300% strain | 5.00 | MPa | ASTM D412 |
|----------------------------|---------------|------|-----------|
| Tensile Strength (Break) | 9.00 | MPa | ASTM D412 |
| Tensile Elongation (Break) | 500 | % | ASTM D412 |
| Injection | Nominal Value | Unit | |
| Rear Temperature | 182 - 232 | °C | |
| Middle Temperature | 188 - 238 | °C | |
| Front Temperature | 193 - 243 | °C | |
| Nozzle Temperature | 199 - 249 | °C | |
| Processing (Melt) Temp | 199 - 249 | °C | |
| Mold Temperature | 35.0 - 48.9 | °C | |
| Injection Pressure | 1.38 - 5.52 | MPa | |
| Injection Rate | Fast | | |
| Back Pressure | 0.172 - 0.689 | MPa | |
| Screw Speed | 50 - 100 | rpm | |
| Cushion | 3.81 - 25.4 | mm | |

Injection instructions

Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 150°F (65°C).

| Extrusion | Nominal Value | Unit | |
|-----------------------|---------------|------|--|
| Cylinder Zone 1 Temp. | 182 - 232 | °C | |
| Cylinder Zone 2 Temp. | 188 - 238 | °C | |
| Cylinder Zone 3 Temp. | 193 - 243 | °C | |
| Cylinder Zone 5 Temp. | 199 - 249 | °C | |
| Die Temperature | 199 - 249 | °C | |

Extrusion instructions

Screw Speed: 30 to 100 rpm

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