

Monprene® RG-17282 NAT

Thermoplastic Elastomer

Teknor Apex Company

Message:

Monprene® RG-17282 NAT is a thermoplastic elastomer (TPE) material. This product is available in North America 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 | | |
| | Toothbrush handle | | |
| | Medical/nursing supplies | | |
| Appearance | Opacity | | |
| Forms | Particle | | |
| Processing Method | Extrusion | | |
| | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 0.978 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 6.0 | g/10 min | ASTM D1238 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness | | | ASTM D2240 |
| Shaw A | 85 | | ASTM D2240 |
| Shaw A, 5 seconds | 83 | | ASTM D2240 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Stress | | | ASTM D412 |
| 100% strain | 5.17 | MPa | ASTM D412 |

| | | | |
|-----------------------------------|------|-----|-----------|
| 200% strain | 5.62 | MPa | ASTM D412 |
| Flow: 300% strain | 6.21 | MPa | ASTM D412 |
| Tensile Strength - Flow (Break) | 11.2 | MPa | ASTM D412 |
| Tensile Elongation - Flow (Break) | 760 | % | ASTM D412 |

| Injection | Nominal Value | Unit |
|------------------------|---------------|------|
| Rear Temperature | 171 - 193 | °C |
| Middle Temperature | 177 - 199 | °C |
| Front Temperature | 182 - 204 | °C |
| Nozzle Temperature | 188 - 210 | °C |
| Processing (Melt) Temp | 188 - 210 | °C |
| Mold Temperature | 25.0 - 65.6 | °C |
| Injection Pressure | 1.38 - 6.89 | MPa |
| Injection Rate | Moderate-Fast | |
| Back Pressure | 0.172 - 0.345 | 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).

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