Monprene® OM-10255-01

Thermoplastic Elastomer

Teknor Apex Company

Message:

Monprene®OM-10255-01 is a thermoplastic elastomer (TPE) material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. The processing method is 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 | | | | |
| | | | | | |
| Forms | Particle | | | | |
| Processing Method | Extrusion | | | | |
| | Injection molding | | | | |
| | | | | | |
| Physical | Nominal Value | Unit | Test Method | | |
| Specific Gravity | 1.00 | g/cm³ | ASTM D792 | | |
| Melt Mass-Flow Rate (MFR) (200°C/2.16 | | | | | |
| kg) | 45 | g/10 min | ASTM D1238 | | |
| Hardness | Nominal Value | Unit | Test Method | | |
| Durometer Hardness | | | ASTM D2240 | | |
| Shore A, 1 second, 23°C, injection | 40 | | ACTM D2240 | | |
| molding ¹ | 48 | | ASTM D2240 | | |
| Shore A, 5 seconds, 23°C, injection molding ² | 55 | | ASTM D2240 | | |
| Elastomers | Nominal Value | Unit | Test Method | | |
| Tensile Stress | | | ASTM D412 | | |
| | | | | | |

| 100% strain | 1.60 | MPa | ASTM D412 |
|----------------------------|---|------|--|
| 300% strain | 3.20 | MPa | ASTM D412 |
| Tensile Strength (Break) | 5.00 | MPa | ASTM D412 |
| Tensile Elongation (Break) | 500 | % | ASTM D412 |
| Additional Information | Nominal Value | | |
| Adhesion to ABS | | | |
| Adhesion to PC | | | |
| Adhesion to PC/ABS | | | |
| Injection | Nominal Value | Unit | |
| Rear Temperature | 138 - 188 | °C | |
| Middle Temperature | 154 - 199 | °C | |
| Front Temperature | 154 - 216 | °C | |
| Nozzle Temperature | 154 - 221 | °C | |
| Processing (Melt) Temp | 166 - 221 | °C | |
| Mold Temperature | 10.0 - 32.2 | °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 | | | |
| | moisture is a problem, dry the pellets peratures for the TPE material be set | | or any overmolding process it is than the melt temperature of the subtrate |
| 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 | | |
| NOTE | | |
| 1. | Aging 0 hr | |
| 2. | Aging 48 hr | |

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