

Gallonprene® GP520-4504

Thermoplastic Elastomer

Shenzhen Sungallon Rubber & Plastic Corporation Limited

Message:

Gallonprene® GP520-4504 is a thermoplastic elastomer (TPE) product. It can be processed by injection molding and is available in Africa and the Middle East, Latin America or Asia Pacific. Gallonprene® GP520-4504 application areas include engineering/industrial accessories, home applications, consumer goods and handles.

Features include:

Comply with REACH standard

ROHS certification

Halogen-free

| General Information | | | |
|---|-------------------------|-------------------|-------------|
| Features | High elasticity | | |
| | Halogen-free | | |
| Uses | overmolding | | |
| | Household goods | | |
| | Soft handle | | |
| | Toys | | |
| Agency Ratings | EC 1907/2006 (REACH) | | |
| RoHS Compliance | RoHS compliance | | |
| Appearance | White | | |
| | Rough surface polishing | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.09 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (200°C/2.16 kg) | 3.5 | g/10 min | ASTM D1238 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore A, 23°C) | 45 | | ASTM D2240 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Strength ¹ (Break) | 3.20 | MPa | ASTM D412 |
| Tensile Elongation ² (Break) | 650 | % | ASTM D412 |
| Injection | Nominal Value | Unit | |
| Rear Temperature | 140 - 160 | °C | |
| Middle Temperature | 150 - 170 | °C | |
| Front Temperature | 160 - 180 | °C | |
| Processing (Melt) Temp | 110 - 130 | °C | |
| Mold Temperature | 30.0 - 60.0 | °C | |

| | |
|---|------------|
| Injection Rate | Moderate |
| Injection instructions | |
| Processing Temperature Limit: 260°CInjection Pressure: ModerateBack Pressure: 20 to 50%Overmolding Parameters:Rear Temperature: 160 to 180°CCenter Temperature: 170 to 190°CFront Temperature: 180 to 200°C Melt Temperature: 110 to 130°C Mold Temperature: 30 to 60°CProcessing Temperature Limit: 220°CInjection Pressure: ModerateInjection Speed: ModerateBack Pressure: 20 to 50% | |
| NOTE | |
| 1. | 500 mm/min |
| 2. | 500 mm/min |

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