



Ravathane R120A65

Ravago Manufacturing Turkey - Thermoplastic Polyurethane Elastomer (Polyester)

General Information

Product Description

Description: Product is based on standard grade saturated polyester and has strong resilience and tear resistance, excellent abrasion resistance, higher resistance to hydrolysis failure and oxidation, good stability towards solvents and light. This product is phthalate-free and exhibiting fast processing cycles.

Application: Compounding, working shoes, transparent parts etc.

General

| | | | |
|-------------------|----------------------|------------------------|---------------------|
| Material Status | • Commercial: Active | | |
| Availability | • Europe | • North America | |
| Features | • Abrasion Resistant | • Hydrolysis Resistant | • Solvent Resistant |
| | • Fast Molding Cycle | • Oxidation Resistant | |
| | • Good Tear Strength | • Resilient | |
| Uses | • Compounding | • Footwear | • Transparent Parts |
| Forms | • Pellets | | |
| Processing Method | • Injection Molding | | |

Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|------------------------------|---------------|-------------------|-------------|
| Density | 1.18 | g/cm ³ | ISO 1183/A |
| Mechanical | Nominal Value | Unit | Test Method |
| Abrasion Resistance | 50.0 | mm ³ | ISO 4649 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Stress (100% Strain) | 2.00 | MPa | ISO 37 |
| Tensile Stress (300% Strain) | 4.50 | MPa | ISO 37 |
| Tensile Stress (Yield) | 20.0 | MPa | ISO 37 |
| Tensile Elongation (Break) | 770 | % | ISO 37 |
| Tear Strength ² | 80.0 | kN/m | ISO 34-1 |
| Hardness | Nominal Value | Unit | Test Method |
| Shore Hardness (Shore A) | 67 | | ISO 868 |

Processing Information

| Injection | Nominal Value | Unit |
|--------------------|---------------|------|
| Drying Temperature | 80 to 100 | °C |
| Rear Temperature | 160 | °C |
| Middle Temperature | 170 | °C |
| Front Temperature | 175 | °C |
| Nozzle Temperature | 180 | °C |
| Injection Pressure | 65.0 | MPa |

Notes

¹ Typical properties: these are not to be construed as specifications.

² Method Bb, Angle (Nicked)