

RAVATHANE[®]

Ravathane[®] 141 A65 HR



Technical Data Sheet

PRODUCT DESCRIPTION

Aromatic polyester polyol based thermoplastic polyurethane with excellent mechanicals, tear and abrasion resistance, and oxidative stability.

Features: Hydrolytically stabilized.

MAIN APPLICATIONS

Injection molding

Typical Properties

| PROPERTY | TEST METHOD | UNIT | VALUE |
|---------------------|----------------|-------------------|-------|
| Hardness | ISO 868 | Shore A | 65 |
| Density | ISO 1183-1 A | g/cm ³ | 1,16 |
| 100% modulus | ISO 37 | MPa | 3 |
| 300% modulus | ISO 37 | MPa | 4 |
| Tensile strength | ISO 37 | MPa | 20 |
| Elongation at break | ISO 37 | % | 950 |
| Tear strength | ISO 34-1 B/(b) | N/mm | 75 |
| Abrasion resistance | ISO 4649 | mg | 35 |

Based on injection molded plaques (12cmx12cmx2mm) conditioned 24 hours at room temperature before testing.

Recommended Starting Injection Molding Temperature Profile

| Nozzle (°C) | Metering (°C) | Compression (°C) | Feed (°C) |
|-------------|---------------|------------------|-----------|
| 160-180 | 165-185 | 165-185 | 160-180 |

Before processing, the pellets have to be dried at 90-105°C for 2-4 hours. Maximum moisture content should be below 0.02%