



RAVATHANE[®]

Ravathane[®] 165 D50 E10

Description: Thermoplastic polyurethane based on special polyester having strong resilience and tear resistance, excellent abrasion resistance, higher resistance to hydrolysis failure and oxidation, good stability towards solvents and light.

Application: Belting and profiles, film, and sheet.

Feature: Good transparency, low melting point.

Typical Properties

| PROPERTIES | TEST METHOD | UNITS | VALUES |
|---------------------|--------------|-------------------|--------|
| Hardness | ISO 868 | Shore D | 50 |
| Density | ISO 1183-1 A | g/cm ³ | 1.22 |
| 100% modulus | ISO 37 | MPa | 13 |
| 300% modulus | ISO 37 | MPa | 25 |
| Tensile strength | ISO 37 | MPa | 42 |
| Elongation at break | ISO 37 | % | 610 |
| Tear strength | ISO 34-1 B/b | N/mm | 210 |
| Abrasion Resistance | ISO 4649 | mm ³ | 40 |

Properties have been tested on injection molded plaques conditioned 24 hours at room temperature before testing.

Before processing, the pellets have to be dried at 80-90 °C for 2-4 hours. Maximum moisture content should be below 0.02%.

Application Guideline (Extrusion)

| Nozzle (°C) | Zone 3 (°C) | Zone 2 (°C) | Zone 1 (°C) |
|-------------|-------------|-------------|-------------|
| 185-205 | 190-210 | 190-210 | 185-205 |