



RAVATHANE®

Technical Data Sheet

Ravathane® 210 D50 UV

Description: Thermoplastic polyurethane based on polyether having strong resilience and tear resistance, excellent abrasion resistance, excellent resistance to hydrolysis failure and microbial attack, good stability towards solvents and light.

Application: Injection molding.

Typical Properties

| PROPERTIES | TEST METHOD | UNITS | VALUES |
|---------------------------|--------------|-------------------|--------|
| Hardness | ISO 868 | Shore D | 50 |
| Density | ISO 1183-1 A | g/cm ³ | 1,15 |
| Tensile stress at: | | | |
| -100% elongation | ISO 37 | MPa | 14 |
| -300% elongation | ISO 37 | MPa | 20 |
| Tensile strength at break | ISO 37 | MPa | 40 |
| Elongation at break | ISO 37 | % | 540 |
| Tear strength | ISO 34-1 B/b | N/mm | 200 |
| Abrasion resistance | ISO 4649 | mm ³ | 40 |

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

Application Guideline (Injection Molding)

| Nozzle (°C) | Metering (°C) | Compression (°C) | Feed (°C) |
|-------------|---------------|------------------|-----------|
| 200-205 | 205-210 | 205-210 | 195-200 |

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