



# RAVATHANE<sup>®</sup>

## Technical Data Sheet

### Ravathane<sup>®</sup> 130 A90 DU

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

**Application:** Injection molding and extrusion applications

**Features:** Low cycle time, good crystallization, easy demoulding.

### Typical Properties

| PROPERTIES          | TEST METHOD  | UNITS             | VALUES |
|---------------------|--------------|-------------------|--------|
| Hardness            | ISO 868      | Shore A           | 90     |
| Density             | ISO 1183-1 A | g/cm <sup>3</sup> | 1,21   |
| 100% modulus        | ISO 37       | MPa               | 7      |
| 300% modulus        | ISO 37       | MPa               | 16     |
| Tensile strength    | ISO 37       | MPa               | 45     |
| Elongation at break | ISO 37       | %                 | 550    |
| Tear strength       | ISO 34-1 B/b | N/mm              | 120    |
| Abrasion Resistance | ISO 4649     | mm <sup>3</sup>   | 35     |

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 (Injection Molding)

| Nozzle (°C) | Metering (°C) | Compression (°C) | Feed (°C) |
|-------------|---------------|------------------|-----------|
| 185-205     | 190-210       | 190-210          | 185-205   |