



# **RAVATHANE®**

## **Technical Data Sheet**

### **Ravathane® 140 D50 052S**

**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:** Profile extrusion, hoses, wire and cable, etc.

### **Typical Properties**

| PROPERTIES          | TEST METHOD  | UNITS             | VALUES |
|---------------------|--------------|-------------------|--------|
| Hardness            | ISO 868      | Shore D           | 50     |
| Density             | ISO 1183-1 A | g/cm <sup>3</sup> | 1.22   |
| 100% modulus        | ISO 37       | MPa               | 13     |
| 300% modulus        | ISO 37       | MPa               | 24     |
| Tensile strength    | ISO 37       | MPa               | 52     |
| Elongation at break | ISO 37       | %                 | 600    |
| Tear strength       | ISO 34-1 B/b | N/mm              | 160    |
| Abrasion Resistance | ISO 4649     | mm <sup>3</sup>   | 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) |
|-------------|-------------|-------------|-------------|
| 195-215     | 200-220     | 200-220     | 195-215     |