



# RAVATHANE®

## Technical Data Sheet

### Ravathane® 240 A80

**Description:** Thermoplastic polyurethane based on polyether 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, conveyor belt, other extruded parts etc.

### Typical Properties

| PROPERTIES          | TEST METHOD  | UNITS             | VALUES |
|---------------------|--------------|-------------------|--------|
| Hardness            | ISO 868      | Shore A           | 80     |
| Density             | ISO 1183-1 A | g/cm <sup>3</sup> | 1,10   |
| 100% modulus        | ISO 37       | MPa               | 5,0    |
| 300% modulus        | ISO 37       | MPa               | 10,0   |
| Tensile strength    | ISO 37       | MPa               | 40     |
| Elongation at break | ISO 37       | %                 | 750    |
| Tear strength       | ISO 34-1 B/b | N/mm              | 100    |
| Abrasion Resistance | ISO 4649     | mm <sup>3</sup>   | 40     |

Properties have been tested on extrusion tape conditioned 16 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) |
|-------------|-------------|-------------|-------------|
| 180-200     | 175-195     | 175-195     | 170-190     |