



# **RAVATHANE®**

## **Technical Data Sheet**

### **Ravathane® 150 A70**

**Description:** Plasticized thermoplastic polyurethane based on special polyester that having non blooming properties, 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.

**Feature:** Non-blooming

### **Typical Properties**

| PROPERTIES                | TEST METHOD  | UNITS             | VALUES |
|---------------------------|--------------|-------------------|--------|
| Hardness                  | ISO 868      | Shore A           | 70     |
| Density                   | ISO 1183-1 A | g/cm <sup>3</sup> | 1,19   |
| Tensile stress at:        |              |                   |        |
| -100% elongation          | ISO 37       | MPa               | 3,0    |
| -300% elongation          | ISO 37       | MPa               | 5,2    |
| Tensile strength at break | ISO 37       | MPa               | 27     |
| Elongation at break       | ISO 37       | %                 | 1000   |
| Tear strength             | ISO 34-1 B/b | N/mm              | 80     |
| Abrasion resistance       | ISO 4649     | mm <sup>3</sup>   | 60     |

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

### **Application Guideline (Injection Molding)**

| Nozzle (°C) | Metering (°C) | Compression (°C) | Feed (°C) |
|-------------|---------------|------------------|-----------|
| 175-185     | 180-190       | 180-190          | 170-180   |

Before processing, the pellets have to be dried at 80-90°C for 2-4 hours. Maximum moisture content should be below 0.04%.