



# 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