



# RAVATHANE®

## Technical Data Sheet

### Ravathane® 110 A90

**Description:** Ravathane 110 A90 is an aromatic polyester based TPU designed for molding in low temperatures, excellent abrasion resistance, good wear performance, rebound elasticity at good flexibility at low temperature, good tensile strength.

**Application:** Shoe soles, injected parts.

### 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% elongation	ISO 37	MPa	7,0
300% elongation	ISO 37	MPa	12
Tensile strength at break	ISO 37	MPa	45
Elongation at break	ISO 37	%	700
Tear strength	ISO 34-1 B/b	N/mm	140
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.

### Application Guideline (Injection Molding)

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

Before processing, the pellets have to be dried at 80-90°C for 2-4 hours. Maximum moisture content should be below 0.02%.