



Ravathane R120A75

Ravago Manufacturing Turkey - Thermoplastic Polyurethane Elastomer

(Polyester)

General Information

Product Description

Description: Product is based on standard grade saturated polyester and has strong resilience and tear resistance, excellent abrasion resistance, higher resistance to hydrolysis failure and oxidation, good stability towards solvents and light. This product is phthalate-free and exhibiting fast processing cycles.

Application: Compounding, working shoes, transparent parts etc.

General

Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Features	• Abrasion Resistant • Fast Molding Cycle • Good Tear Strength	• Hydrolysis Resistant • Oxidation Resistant • Resilient	• Solvent Resistant
Uses	• Compounding	• Footwear	• Transparent Parts
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm ³	ISO 1183/A
Mechanical	Nominal Value	Unit	Test Method
Abrasion Resistance	50.0	mm ³	ISO 4649
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	3.00	MPa	ISO 37
Tensile Stress (300% Strain)	7.00	MPa	ISO 37
Tensile Stress (Yield)	24.0	MPa	ISO 37
Tensile Elongation (Break)	750	%	ISO 37
Tear Strength ²	95.0	kN/m	ISO 34-1
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	77		ISO 868

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	80 to 100	°C
Rear Temperature	160	°C
Middle Temperature	170	°C
Front Temperature	175	°C
Nozzle Temperature	180	°C
Injection Pressure	65.0	MPa

Notes

¹ Typical properties: these are not to be construed as specifications.

² Method Bb, Angle (Nicked)