

Ravathane R210A90UV

Thermoplastic Polyurethane Elastomer (Polyether)

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Message:

Description: Product is based on standard grade polyether and has strong resilience and tear resistance, excellent abrasion resistance, excellent resistance to hydrolysis failure and microbial attack, good stability towards solvents and light.
Application: Injection molding and extrusion

General Information	
Features	Antimicrobial
	Good tear strength
	Good wear resistance
	Hydrolysis resistance
	Elastic
Forms	Particle
Processing Method	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Density	1.12	g/cm ³	ISO 1183/A
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	91		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Abrasion Resistance	35.0	mm ³	ISO 4649
Extruder Screw L/D Ratio	25:1		
Screw cooling	Air		
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ISO 37
100% strain	8.00	MPa	ISO 37
300% strain	18.0	MPa	ISO 37
Tensile Stress (Yield)	42.0	MPa	ISO 37
Tensile Elongation (Break)	550	%	ISO 37
Tear Strength ¹	120	kN/m	ISO 34-1
Injection	Nominal Value	Unit	
Drying Temperature	100 - 110	°C	
Rear Temperature	195	°C	
Middle Temperature	205	°C	
Front Temperature	210	°C	
Nozzle Temperature	205	°C	
Injection Pressure	70.0	MPa	

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	200 - 210	°C
Cylinder Zone 2 Temp.	215 - 225	°C
Cylinder Zone 3 Temp.	230 - 240	°C
Cylinder Zone 4 Temp.	200 - 210	°C
Die Temperature	200 - 210	°C
Extrusion instructions		
Type: 30/25d, Screw: 3:1, Speed: 3:1, Speed: 50 rpm, Thickness Die: 0.2mm, Pre-heating: 1h@105°C		
NOTE		

1.

Method B, right-angle specimen
(cut)

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