

Ravathane R210D52UV

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	1.14	g/cm ³	ISO 1183/A
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	52		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	17.0	MPa	ISO 37
300% strain	28.0	MPa	ISO 37
Tensile Stress (Yield)	47.0	MPa	ISO 37
Tensile Elongation (Break)	470	%	ISO 37
Tear Strength ¹	130	kN/m	ISO 34-1
Injection	Nominal Value	Unit	
Drying Temperature	100 - 110	°C	
Rear Temperature	200	°C	
Middle Temperature	210	°C	
Front Temperature	215	°C	
Nozzle Temperature	210	°C	
Injection Pressure	70.0	MPa	

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	180 - 195	°C
Cylinder Zone 2 Temp.	190 - 210	°C
Cylinder Zone 3 Temp.	200 - 220	°C
Cylinder Zone 4 Temp.	190 - 200	°C
Die Temperature	185 - 195	°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

- Method B, right-angle specimen
(cut)

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