+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
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Ravathane R210A85UV

Ravago Manufacturing Turkey - Thermoplastic Polyurethane Elastomer (Polyether)

General Information

Product Description

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

Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Features	• Abrasion Resistant • Good Tear Strength	• Hydrolysis Resistant • Microbe Resistant	• Resilient
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.11	g/cm³	ISO 1183/A
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Abrasion Resistance	35.0	mm³	ISO 4649
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (100% Strain)	7.00	MPa	ISO 37
Tensile Stress (300% Strain)	13.0	MPa	ISO 37
Tensile Stress (Yield)	33.0	MPa	ISO 37
Tensile Elongation (Break)	650	%	ISO 37
Tear Strength [2]	100	kN/m	ISO 34-1
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore A)	85		ISO 868

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	100 to 110	°C
Rear Temperature	195	°C
Middle Temperature	205	°C
Front Temperature	210	°C
Nozzle Temperature	200	°C
Injection Pressure	70.0	MPa

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Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	185 to 200	°C
Cylinder Zone 2 Temp.	200 to 220	°C
Cylinder Zone 3 Temp.	210 to 230	°C
Cylinder Zone 4 Temp.	200 to 220	°C
Die Temperature	190 to 200	°C
Extruder Screw L/D Ratio	25:1	
Screw Cooling	Air	

Extrusion Notes

Type: 30/25d, Screw: 3:1, Speed: 3:1, Speed: 50 rpm, Thickness Die: 0.2mm, Pre-heating: 1h@100°C

Notes

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

[2] Method Bb, Angle (Nicked)