



# Ravathane R210A80UV

## 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 <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	1.10	g/cm <sup>3</sup>	ISO 1183/A
Mechanical	Nominal Value	Unit	Test Method
Abrasion Resistance	35.0	mm <sup>3</sup>	ISO 4649
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	5.00	MPa	ISO 37
Tensile Stress (300% Strain)	8.00	MPa	ISO 37
Tensile Stress (Yield)	30.0	MPa	ISO 37
Tensile Elongation (Break)	750	%	ISO 37
Tear Strength <sup>2</sup>	80.0	kN/m	ISO 34-1
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	80		ISO 868

### Processing Information

Injection	Nominal Value	Unit
Drying Temperature	100 to 110	°C
Rear Temperature	180	°C
Middle Temperature	190	°C
Front Temperature	195	°C
Nozzle Temperature	195	°C
Injection Pressure	70.0	MPa

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

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Method Bb, Angle (Nicked)