



RavaSafe® ZH TPU 90A R112M

Ravago Manufacturing Europe - Thermoplastic Polyurethane Elastomer

(Polyether)

General Information

Product Description

Description: Halogen free flame retardant polyether based thermoplastic polyurethane having outstanding UV and hydrolysis resistance, excellent mechanical properties, low temperature flexibility, and high resistance to micro-organisms designed for cable jacketing applications.

Application: Wire and Cable

General

Material Status	• Commercial: Active		
Availability	• Europe	• Latin America	• North America
Additive	• Flame Retardant		
Features	• Flame Retardant • Halogen Free	• Hydrolysis Resistant • Low Temperature Flexibility	• Microbe Resistant • UV Resistant
Uses	• Wire & Cable Applications		
Processing Method	• Extrusion		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.14	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)	7.25	MPa	ISO 37
Tensile Stress (300% Strain)	14.0	MPa	ISO 37
Tensile Stress (Break)	40.0	MPa	ISO 37
Tensile Elongation (Break)	550	%	ISO 37
Tear Strength ²	100	kN/m	ISO 34-1
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (-40°C)	No Break		ISO 179/1A
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	91		ISO 868
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.6 mm)	V-2		UL 94
Oxygen Index	23	%	ISO 4589-2

Processing Information

Extrusion	Nominal Value	Unit
Drying Temperature	80 to 90	°C
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Cylinder Zone 1 Temp.	185 to 205	°C
Cylinder Zone 2 Temp.	195 to 215	°C
Cylinder Zone 3 Temp.	195 to 215	°C