



RavaSafe® ZH TPU 90A C301M

Ravago Manufacturing Europe - Thermoplastic Polyurethane Elastomer

(Polyether)

General Information

Product Description

Description: Ravasafe ZH TPU 90A C301M is a halogen-free flame retardant polyether based thermoplastic polyurethane compound with outstanding hydrolysis resistance, low temperature flexibility and high resistance to micro-organisms designed for general purpose insulation & sheathing application

Ravasafe ZH TPU 90A C301M combines excellent flame retardancy, good processing and good mechanical properties.

General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm ³	ISO 1183/A
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (Break)	> 30.0	MPa	ISO 37
Tensile Elongation (Break)	> 500	%	ISO 37
Tear Strength ²	> 90.0	kN/m	ISO 34-1
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	90		ISO 868
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.6 mm)	• V-2 • V-1		UL 94
Oxygen Index	23	%	ISO 4589-2

Processing Information

Extrusion	Nominal Value	Unit
Drying Temperature	90 to 110	°C
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Cylinder Zone 1 Temp.	170 to 190	°C
Cylinder Zone 2 Temp.	175 to 195	°C
Cylinder Zone 3 Temp.	175 to 195	°C

Notes

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

² Method Bb, Angle (Nicked)