

AuroraGuard™ GTPO 8290UVSL

Aurora Material Solutions, LLC - Polyolefin

General Information
Product Description

A Polyolefin based halogen free flame retardant jacketing material designed to pass CSA Teck 90 requirements with UV resistance. This compound features enhanced scratch and mar resistance, and it is designed to have a lower COF to aide in ease of cable pull-through and installation.

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Features	• Excellent Processability • Halogen Free • Good Scratch Resistance • UV Resistant
Uses	• Jacketing • Wire & Cable Applications
Appearance	• Colors Available
Processing Method	• Extrusion

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.47		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/10.0 kg)	3.5	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Compression Molded)	1900	psi	ASTM D638
Tensile Elongation ² (Break, Compression Molded)	200	%	ASTM D638
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec)	48		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-36.4	°F	ASTM D746
Deformation (250°F)	18	%	UL 2556
Temperature Rating	221	°F	UL 1581
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength (277°F, 168 hr)	-15	%	UL Unspecified
Change in Ultimate Elongation (277°F, 168 hr)	-20	%	UL Unspecified
Flammability	Nominal Value	Unit	Test Method
Oxygen Index ³	47	%	ASTM D2863

Processing Information

Extrusion	Nominal Value	Unit
Drying Temperature	195	°F
Drying Time	4.0	hr
Cylinder Zone 1 Temp.	310	°F
Cylinder Zone 2 Temp.	320	°F
Cylinder Zone 3 Temp.	330	°F
Cylinder Zone 4 Temp.	340	°F
Melt Temperature	335	°F
Die Temperature	350 to 355	°F

Notes

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

² Thermoplastic

³ Value intended for reference only

