

AuroraGuard™ GTPO-15-058

Aurora Material Solutions, LLC - Polyolefin

General Information
Product Description

An Olefin-based, zero halogen, low smoke, flame retardant compound with good processing and mechanical characteristics and good surface quality.

Note: Additional custom color matching is available upon request.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Flame Retardant		
Features	• Flame Retardant • Good Processability	• Good Surface Finish • Halogen Free	• Low Smoke Emission
Uses	• Electronic Insulation	• Jacketing	• Wire & Cable Applications
Appearance	• Colors Available		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.35 to 1.41		ASTM D792
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength	2000	psi	ASTM D412
Tensile Elongation (Break)	220	%	ASTM D412
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 10 sec)	51 to 57		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-59.8	°F	ASTM D746
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength			
277°F, 168 hr	40	%	UL 1581
277°F, 168 hr, in Gasoline	-28	%	ASTM D471
277°F, 168 hr, in Hydraulic Brake Fluid	-2.0	%	ASTM D471
277°F, 168 hr, in Oil	-15	%	ASTM D471
Change in Ultimate Elongation			
277°F, 168 hr	-30	%	UL 1581
277°F, 168 hr, in Gasoline	-38	%	ASTM D471
277°F, 168 hr, in Hydraulic Brake Fluid	-15	%	ASTM D471
277°F, 168 hr, in Oil	-22	%	ASTM D471
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.2E+14	ohms	ASTM D257
Volume Resistivity	1.5E+14	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	35	%	ASTM D2863
Smoke Density			ASTM E662
Flaming, 4 min	16	Ds	
Flaming, 90 sec	0.0	Ds	
Flaming, max	81	Ds	
Non-Flaming, 4 min	6.5	Ds	
Non-Flaming, 90 sec	0.0	Ds	
Non-Flaming, max	100	Ds	

