



Halguard® 58610

Teknor Apex Company - Polyolefin

General Information

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Latin America • North America	
Features	• Electrically Insulating • Filled • Flame Retardant	• Good Electrical Properties • Halogen Free • Low Smoke Emission	• Sunlight Resistant (720 hours) • UV Stabilized
Uses	• LSZH Insulation	• LSZH Jacketing	
Agency Ratings	• UL 94	• UL AATJ2	
Regulatory Statement	• Due to the frequent updates to regulations, specifically, California Proposition 65, EU REACH SVHCs, and RoHS, please contact Teknor Apex for the most up to date compliance statement, or refer to section 15 of the product SDS.		
Appearance	• Black	• Colors Available	• Natural Color
Forms	• Pellets		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.63		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/20.0 kg)	1.7	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	1830	psi	ASTM D638
Tensile Elongation (Break)	140	%	ASTM D638
Flexural Modulus	11000	psi	ASTM D790
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 10 sec, Operating Stand)	50		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	221	°F	ASTM D794
Brittleness Temperature	-36.4	°F	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity			ASTM D257
73°F	1.3E+15	ohms·cm	
122°F	1.0E+14	ohms·cm	
Dielectric Constant (1 MHz)	3.91		ASTM D150
Dissipation Factor (1 MHz)	0.021		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	V-0		UL 94
Oxygen Index	50	%	ASTM D2863

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Additional Information

Cone Calorimetry at 75 kW/m2 ISO5660

- Peak Heat Release Rate, (kw/m2): 146
- Total Smoke Released, (m2/m2):1,095
- Average Specific Extinction Area (m2/kg): 195

Deformation at 121C, % (0.060" thick specimens: 7.0% UL1581

720 Hour Sunlight Resistance: Pass UL1581

Data Sheet Applies to Color Listed Below:

Natural (1083190)

Black 1 (1094610)

11/20-lc

Processing Information

Extrusion	Nominal Value	Unit
Melt Temperature	376	°F

Notes

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