



Halguard® 58210

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		
Processing Method	• Wire & Cable Extrusion		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.60		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/20.0 kg)	2.8	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	2250	psi	ASTM D638
Tensile Elongation (Break)	170	%	ASTM D638
Flexural Modulus	20700	psi	ASTM D790
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Operating Stand)	43		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	221	°F	ASTM D794
Brittleness Temperature	-14.8	°F	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity			ASTM D257
73°F	4.0E+14	ohms·cm	
122°F	1.9E+13	ohms·cm	
Dielectric Constant (1 MHz)	3.39		ASTM D150
Dissipation Factor (1 MHz)	0.016		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.13 in)	V-0		UL 94
Oxygen Index	43	%	ASTM D2863

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Additional Information

Cone Calorimetry at 75 kW/m2 ISO5660

- Peak Heat Release Rate, (kW/m2): 131
- Total Smoke Released, (m2/m2): 1,012
- Average Specific Extinction Area, (m2/kg): 184

Deformation at 121C, % (0.060" thick specimens): 2% UL1581

Sunlight Resistance UL1581

(Exposed for 720 hours in a Twin-Carbon Arc Weatherometer)

- Retention of Tensile Strength [%]: 94
- Retention of Elongation at Break [%]: 79

Data Sheet Applies to Colors Listed Below:

Natural (1084486)

Black 1 (1091526)

1/20-lc

Processing Information

Extrusion	Nominal Value	Unit
Melt Temperature	399	°F

Notes

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