

# Halguard® 58100

Teknor Apex Company - Polyolefin

Saturday, September 14, 2024

## 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	• Communication Cable Jacketing	• 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<sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.56	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/20.0 kg)	5.5	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	18.6	MPa	ASTM D638
Tensile Elongation (Break)	160	%	ASTM D638
Flexural Modulus	112	MPa	ASTM D790
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 10 sec, Operating Stand)	44		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	105	°C	ASTM D794
Brittleness Temperature	-60.0	°C	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity			ASTM D257
23°C	4.2E+15	ohms·cm	
50°C	1.4E+15	ohms·cm	
Dielectric Constant (1 MHz)	3.28		ASTM D150
Dissipation Factor (1 MHz)	0.032		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.6 mm)	V-0		UL 94
Oxygen Index	39	%	ASTM D2863

Revision Date: 5/22/2024

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### Additional Information

Cone Calorimetry at 75 kW/m<sup>2</sup> ..... ISO5660

- Peak Heat Release Rate (kw/m<sup>2</sup>): 118
- Total Smoke Released (m<sup>2</sup>/m<sup>2</sup>): 728
- Average Specific Extinction Area (m<sup>2</sup>/kg): 138

Deformation at 121C, % (0.030" thick specimens): 17% ..... UL1581

Sunlight Resistance, Section 1200: Pass ..... UL1581

Data Sheet Applies to Colors Listed Below:

Natural (1048264)

Black 1 (1052852)

11/19-1c

### Processing Information

Extrusion	Nominal Value	Unit
Melt Temperature	204	°C

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

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