

Halguard® 58650

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 Shrinkage	• Low Smoke Emission • 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 Properties¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.52	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/10.0 kg	2.7	g/10 min	
190°C/20.0 kg	18	g/10 min	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	12.6	MPa	ASTM D638
Tensile Elongation (Break)	240	%	ASTM D638
Flexural Modulus	114	MPa	ASTM D790
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 10 sec)	51		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature	105	°C	ASTM D794
Brittleness Temperature	-47.5	°C	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity			ASTM D257
23°C	1.2E+15	ohms·cm	
50°C	6.5E+13	ohms·cm	
Dielectric Constant (1 MHz)	3.65		ASTM D150
Dissipation Factor (1 MHz)	0.023		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.2 mm)	V-0		UL 94
Oxygen Index	40	%	ASTM D2863

Revision Date: 5/22/2024

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Additional Information

Cone Calorimetry at 75 kW/m² ISO5660

- Peak Heat Release Rate, (kW/m²): 151
- Total Smoke Released, (m²/m²): 2,316
- Average Specific Extinction Area, (m²/kg): 409

Deformation at 121C, % (0.060" thick specimens): 4% UL1581

720 Hour Sunlight Resistance: Pass UL1581

Data Sheet Applies to Colors Listed Below:

Natural (1093231)

Black 1 (1123150)

11/19-1c

Processing Information

Extrusion	Nominal Value	Unit
Melt Temperature	193	°C

Notes

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

Teknor Apex Company Corporate Headquarters

*In U.S. for Vinyls, TPEs, Colorants,
Engineered Thermoplastics (Chem Polymer)*
505 Central Avenue
Pawtucket, Rhode Island 02861 U.S.
Phone: 401-725-8000
Fax: 401-725-8095
Toll Free (U.S. only) 800-556-3864

www.teknorapex.com
info@teknorapex.com

Teknor Apex B.V.

Brightlands Chemelot Campus Umonderbaan
22
6167 RD Geleen, Netherlands
Phone: +31 46 7020 950
Fax: +31 46 7020 990
www.teknorapex.com
tpe@teknorapex.com

Teknor Apex (Suzhou) Advanced Polymer Compounds Co. Pte. Ltd.

No. 78 Ping Sheng Road
Suzhou Industrial Park
Jiangsu, China 215126
Phone: (86) 512-6287-1550
Fax: (86) 512-6288-8371
www.teknorapex.com
infotaap@teknorapex.com

Teknor Apex Asia Pacific PTE. LTD.

41 Shipyard Road
Singapore 628134
Phone: (65) 6265-2544
Fax: (65) 6265-1821
www.teknorapex.com
infotaap@teknorapex.com

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