Sunday, September 20, 2026

MHCompounds Wire & Cable
TPE 5595 LSZH

Units SI

M. Holland Company -
Thermoplastic Elastomer

Action **Legend (Open)**

General Information

Product Description

TPE 5595 LSZH is a natural, olefin-based thermoplastic elastomer (TPE) intended for wire and cable insulation and jacketing applications where high temperature performance and excellent flame resistance are required.

TPE 5595 LSZH contains a novel non-halogen intumescent flame retardant additive package designed to reduce normal PE flame spread characteristics and achieve a VW-1 flame resistant rating on 14 AWG wires and larger. It also offers good extrusion processing characteristics on either conventional polyethylene or PVC extrusion lines. In addition, TPE 5595 LSZH contains a UV stabilization additive package that provides effective long-term UV weather resistance.

TPE 5595 LSZH is readily pigmented to a variety of colors using standard wire and cable color concentrates designed for thermoplastic or crosslinked polyolefins.

Application
TPE 5595 LSZH is intended for 125°C UL rated appliance wire and other flame retardant insulation or jacketing constructions. Specifically, this product is rated a V-0 by UL Standard 94 at a minimum thickness of 0.062 inches. TPE 5595 LSZH is capable of achieving a VW-1 flame resistance on 14 AWG or larger conductors as per UL Standard 1581.

General			
Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Flame Retardant	• UV Stabilizer	
Features	• Flame Retardant • Good Colorability	• Halogen Free • High Heat Resistance	• UV Resistant
Uses	• Cable Jacketing • Flame Retardant Insulation	• Insulation • Wire & Cable Applications	• Wire Jacketing
Agency Ratings	• UL 1581 • UL 62, Class 1.14 • UL 62, Class 1.18	• UL 62, Class 2.20 • UL 62, Class 2.28 • UL 62, Class 36	• UL 758, Style 1722 • UL VW-1
Appearance	• Natural Color		
Processing Method	• Extrusion		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.05	g/cm³	ASTM D792
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Flexural Modulus [2] (0.762 mm)	244	MPa	ASTM D790
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (0.762 mm)	13.5	MPa	ASTM D412
Tensile Elongation (Break, 0.762 mm)	630	%	ASTM D412
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A, 15 sec, 0.762 mm)	93		ASTM D2240
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	< -35.0	°C	ASTM D746
Aging	**Nominal Value**	**Unit**	**Test Method**
Retention of Tensile Elongation - 7 days at 158°C (762.0 µm)	86	%	UL 1581
Retention of Tensile Strength - 7 days at 158°C (762.0 µm)	100	%	UL 1581
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity (1.91 mm)	1.6E+16	ohms·cm	ASTM D257
Dielectric Strength (1.91 mm)	26	kV/mm	ASTM D149
Dielectric Constant (1.91 mm, 60 Hz)	2.41		ASTM D150
Dissipation Factor (1.91 mm, 60 Hz)	3.0E-3		ASTM D150
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	V-0		UL 94

Oxygen Index	38 %	ASTM D2863

Processing Information

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	188	°C
Cylinder Zone 2 Temp.	196	°C
Cylinder Zone 3 Temp.	199	°C
Cylinder Zone 4 Temp.	199	°C
Melt Temperature	199	°C
Die Temperature	202	°C

Notes

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

[2] Chord Modulus (0.5 to 1.0%)

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