Sunday, September 20, 2026

MHCompounds Wire & Cable
TPE 2650 LSZH

M. Holland Company -
Thermoplastic Elastomer

Units English

Action **Legend (Open)**

General Information

Product Description

TPE 2650 LSZH is a natural, olefin-based thermoplastic elastomer (TPE) intended for wire and cable insulation and jacketing applications where flexibility, good physical properties and excellent flame resistance are required. TPE 2650 LSZH has a very low and slow heat release when measured in the cone calorimeter per ASTM E 1354-11b. Smoke k(1/m) measurements are very low when compared to halogen or conventional metal hydrate compounds.

TPE 2650 LSZH contains a novel non-halogen intumescent flame retardant additive package designed to reduce normal flame spread characteristics and achieve a VW-1 flame resistant rating on 18 AWG wires and larger. It also offers good extrusion processing characteristics on either conventional polyethylene or PVC extrusion lines. In addition, TPE 2650 LSZH contains a UV stabilization additive package that provides effective long-term UV weather resistance.

TPE 2650 LSZH is readily pigmented to a variety of colors using standard wire and cable color concentrates designed for thermoplastic or crosslinked polyolefins.

Application
TPE 2650 LSZH is intended for use as a tray cable or riser cable jacket. This product is rated a V-0 by UL Standard 94 at a minimum thickness of 0.062 inches. TPE 2650 LSZH is expected to achieve a VW-1 flame resistance on 18 AWG or larger conductors as per UL Standard 1581.

General			
Material Status	• Preliminary Data		
Availability	• North America		
Additive	• Flame Retardant	• UV Stabilizer	
Features	• Flame Retardant • Good Colorability	• Good Flexibility • Halogen Free	• UV Resistant
Uses	• Flame Retardant Insulation • Insulation	• Jacketing • Wire & Cable Applications	
Agency Ratings	• UL 1277 • UL 1581	• UL 1666 • UL 444	• UL 758, Style 1722 • UL VW-1
Appearance	• Natural Color		
Processing Method	• Extrusion		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.15		ASTM D792
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Flexural Modulus [2] (0.0300 in)	26100	psi	ASTM D790
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (0.0300 in)	1560	psi	ASTM D412
Tensile Elongation (Break, 0.0300 in)	620	%	ASTM D412
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A, 15 sec, 0.0300 in)	96		ASTM D2240
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	-31.0	°F	UL 2556
Heat Deformation [3] (302°F, 30.0 mil)	6.0	%	UL 2556
Aging	**Nominal Value**	**Unit**	**Test Method**
Retention of Tensile Elongation - 7 days at 136°C (30.0 mil)	87	%	UL 1581
Retention of Tensile Strength - 7 days at 136°C (30.0 mil)	90	%	UL 1581
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	V-0		UL 94
Oxygen Index	50	%	ASTM D2863

Processing Information

Extrusion	Nominal Value	Unit

Cylinder Zone 1 Temp.	370 °F
Cylinder Zone 2 Temp.	385 °F
Cylinder Zone 3 Temp.	390 °F
Cylinder Zone 4 Temp.	390 °F
Melt Temperature	390 °F
Die Temperature	395 °F

Notes

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

[2] Chord Modulus (0.5 to 1.0%)

[3] 2000 g

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