

K-Prene TPE LSZH 70

Thermoplastic Elastomer

Technovinyl Polymers India Ltd.

Message:

K-Prene TPE LSZH 70 is a Thermoplastic Elastomer (TPE) material. It is available in Africa & Middle East.

Important attributes of K-Prene TPE LSZH 70 are:

Flame Retardant

Halogen Free

Typical application of K-Prene TPE LSZH 70: Wire & Cable

General Information			
Features	Flame Retardant		
	Halogen Free		
Uses	Wire & Cable Applications		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.34 to 1.38	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (160°C/21.6 kg)	3.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	65 to 75		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus - 2% Secant	100	MPa	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	2.94 to 4.90	MPa	ASTM D412
Tensile Elongation ² (Break)	350 to 450	%	ASTM D412
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (100°C, 168 hr)	20	%	ASTM D573
Change in Ultimate Elongation in Air (100°C, 168 hr)	-32	%	ASTM D573
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-20.0	°C	ASTM D746
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	29	%	ASTM D2863
Heat Release			ASTM E1354
Average	84	kW/m²	
Peak	128	kW/m²	
Hot Knife Test (90°C) ³	Passes		IEC 540
Specific Energy - Average	216000	m²/kg	ASTM E1354
Time to Ignition	2.8	min	ASTM E1354
NOTE			

1.	510 mm/min
2.	510 mm/min
3.	4 hrs, % penetration, Clause 8

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