



TECHNOVINYL POLYMERS(I)LTD.



TECHNICAL DATA SHEET

PRODUCT CODE NO. K-PRENE TPE LSZH 70

Physical Properties on test slab		
Melt flow index, dg/min	ASTM D 1238 (21.6 kg @ 160°C	3
Density, g/cm ³	ASTM D 792	1.36 (± 0.02)
Hardness Shore A	ASTM D 2240	70 (± 5)
Low temp. Brittleness, °C	ASTM D 746	-20
Limiting Oxygen Index	ASTM D 2863	29
Hot Pressure Performance @ 90°C		
Hot Knife Test, 90°C, 4 hr, % penetration	IEC 540 Clause 8	Passes
Flexural Modulus, MPa	ASTM D 790 (2% secant)	100
Physical and Electrical Properties on Wire		
Tensile Strength, Kg/Cm ²	ASTM D412 (508 mm/min)	40 (± 10)
Elongation, %	ASTM D412 (508 mm/min)	400 (± 50)
Change in properties after heat aging on wire: 7 days @ 100°C	ASTM D 638	
Tensile Retention, %		120
Elongation Retention, %		68
Change in properties after oil aging on wire: IRM 902 oil, 168 hrs. @ 60°C	ASTM D 638	
Tensile Retention, %		N.A.
Elongation Retention, %		N.A.



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Immersed in water for 16 hrs.	ASTM D 470	
Insulation Resistance, Megaohms/1000 ft		N.A.
Insulation Resistance, Constant K		N.A.
Flame and Smoke Characteristics		
Flame Retardant		Yes
Halogen Free		Yes
Cone Calorimeter Heat Flux 40 kw/m²	ASTM E 1354	
Peak Heat Release, kw/ m ²		128
Time to Ignition, sec		165
Average Heat Release, kw/ m ²		84
Average specific extinction area, m ² /gm		216