



TECHNOVINYL POLYMERS(I)LTD.



TECHNICAL DATA SHEET

PRODUCT CODE NO. HFFR 771

Physical Properties on test slab		
Melt flow index, dg/min	ASTM D 1238 (21.6 kg @ 160°C)	5
Density, g/cm ³	ASTM D 792	1.51
Hardness Shore D	ASTM D 2240	48
Low temp. Brittleness, °C	ASTM D 746	-48
Limiting Oxygen Index	ASTM D 2863	34
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)	300
Physical and Electrical Properties on Wire		
Tensile Strength, MPa	ASTM D412 (508 mm/min)	10.8
Elongation, %	ASTM D412 (508 mm/min)	210
Change in properties after heat aging on wire: 7 days @ 100°C	ASTM D 638	
Tensile Retention, %		112
Elongation Retention, %		78
Change in properties after oil aging on wire: IRM 902 oil, 168 hrs. @ 60°C	ASTM D 638	
Tensile Retention, %		89
Elongation Retention, %		No Change
Immersed in water for 16 hrs.	ASTM D 470	
Insulation Resistance, Megaohms/1000 ft		5500
Insulation Resistance, Constant K		19000
Flame and Smoke Characteristics		
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