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	NEW Modified PPO	Traditional Noryl® Modified PPO		
Material Properties			Units	Applicable Standard
Material Type	Halogen-Free Modified PPO	Noryl® Halogen-Free Modified PPO		
Specific Gravity	1.09	1.08	gr/cc	ASTM D 792
Heat Deflection Temperature (@ 264 psi)	215°F	212°F	°F	ASTM D 648
Thermal Expansion	3.8	3.8	10-5 in/in°F	ASTM D 696
Thermal Conductivity	1.3	1.1	BTU-in/hr-ft2-°F	ASTM C 177
Tensile Strength at Yield	7,700	6,900	psi	ASTM D 638
Tensile Modulus	350,000	380,000	psi	ASTM D 638
Flexure Strength at Yield	11,500	11,400	psi	ASTM D 790
Flexural Modulus	340,000	365,000	psi	ASTM D 790
Hardness (Durometer Shore "D")	N/A	85	"D"	ASTM D 2240
Hardness (Rockwell "R")	116	115	"R"	ASTM D 785
Impact Strength (@ 73°F)	5.0	5.0	ft-lb/in	ASTM D 256
Maximum Continuous Use Temperature	95°C	95°C	°C	ASTM D 256
Flame & Smoke Characteristics				Applicable Standard(s)
UL94	V-0	V-1		UL94
IEC-60332-1	Pass	N/A		IEC-60332-1
Halogen-Free	Yes	Yes		IEC-60754-2
Peak Heat Release Rate	396.7	486.1	Kw/m^2	ASTM E 1354
Flame Spread	75	220	—	ASTM E 162
Smoke Density (@ 4 minutes)	513	782	—	ASTM E 662
Regional Mass Transit AFNOR NF F 16-101 NF F 16-102 Railway Rolling Stock Fire Behavior (smoke density, glowing filament, oxygen index)	F3/ I4*	N/A		NFS10-702 NFX70-100 NFEN60695-2 NFENISO4589-2
Limited Oxygen Index (LOI)	30	30	—	ASTM D 2863

Note: To the best of our knowledge, this information is accurate. *PANDUIT* assumes no liability for the accuracy or completeness of this information.