

“Lift-Off” Pipe Supports

Type: LOR and LORAN (for cryogenic services only)

Material specification

General Information	Procedure	Typical Values
Part Number		3923
Standard Color		Yellow
Minimum Service Temperature °F (°C)		-265 (-165)
Mechanical Properties		
Flexural Strength at 75°F (24°C) in Psi (Mpa)	ASTM D 790	*29,000 (200)
Compressive Strength, Perpendicular to lamination		
@ 75°F / 24°C in Psi (Mpa)	ASTM D 695	45,000 (310)
@ -62°F / -80°C in Psi (Mpa)	ASTM D 695	68,000 (470)
@ -265°F / -165 in Psi (Mpa)	ASTM D 695	43,000 (296)
Compressive Modulus at 75°F (24°C) in Psix10⁶ (Mpa)	ASTM D 695	1.8 (12,411)
IZOD Impact Strength in Ft.Lb./In. (J/cm)	ASTM D 256	8.9 (4.7)
Barcol Hardness, Minimum	ASTM D 2583	45
Water Absorption in % by weight	ASTM D 570	<0.2%
Density, lbs/ft.³ (g/cm³)	-	119.9 (1.92)
Thickness Tolerance Std. NEMA or If sanded, in Inches (mm)		NEMA or +/-0.004 (1mm)
Electrical Properties		
Electrical Strength, Perpendicular S/T in Air, Vpm (kV/mm)	ASTM D 149	50 (2)
Flame-Resistance Properties		
UL Subject 94	UL 94	HB
Thermal Properties		
Coefficient of Thermal Expansion (perpendicular) K⁻¹	ASTM D 696	22.1 x 10⁻⁶
Coefficient of Thermal Expansion (parallel) K⁻¹	ASTM D 696	116 x 10⁻⁶
Thermal Conductivity in BTU*In/Hr.*Ft²*°F (W/m*K)	ASTM C 177	1.22 (0.18)
Glass Transition Onset Temperature T _g , in °F (°C) , DSC test	ASTM E 1356	320°F (160°C)

* - Values are an average of typical L.W. and C.W. values.

-The above values are measured averages and not guaranteed.