

LARPEEK 10 K/30

LATI INDUSTRIA TERMOPLASTICI SPA - *Polyetheretherketone*

General Information

Product Description

Compound based on Polyetheretherketone (PEEK). Carbon fibres. Intrinsically flame retardant. Very good chemical resistance. Very good thermal properties. Low smoke density and low toxicity index. PFAS-free product.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Carbon Fiber		
Features	• Flame Retardant	• High Heat Resistance	• PFAS Free
Uses	• High Temperature Applications		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.39	g/cm ³	ISO 1183
Molding Shrinkage ²			ISO 294-4
Across Flow : 0.0787 in	0.50 to 0.75	%	
Flow : 0.0787 in	0.10 to 0.20	%	
Water Absorption ³ (Saturation, 73°F)	0.070	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	3.05E+6	psi	ISO 527-1/1
Tensile Stress (Break, 73°F)	31900	psi	ISO 527-2/5
Tensile Strain (Break, 73°F)	1.3	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	2.9	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	21	ft·lb/in ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	644	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	626	°F	ISO 75-2/A
Vicat Softening Temperature	644	°F	ISO 306/B120
CLTE - Flow (86 to 212°F)	2.8E-6	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	1.4E-5	in/in/°F	ISO 11359-2
Thermal Conductivity			ASTM E1461
⁴	2.8	Btu·in/hr/ft ² /°F	
⁵	4.9	Btu·in/hr/ft ² /°F	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2	ohms	ASTM D257
Volume Resistivity	1.0E+6	ohms·cm	ASTM D257
Dielectric Strength (73°F, 0.0787 in, Method A (Short-Time))	76	V/mil	ASTM D149
Comparative Tracking Index ⁶ (Solution A)	125	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.06 in	V-0		
0.12 in	V-0		
Glow Wire Flammability Index (0.08 in)	1760	°F	IEC 60695-2-12
Glow Wire Ignition Temperature (0.08 in)	1520	°F	IEC 60695-2-13

