

**LARPEEK 10 G/60**

 LATI INDUSTRIA TERMOPLASTICI SPA - *Polyetheretherketone*
**General Information**
**Product Description**

Compound based on Polyetheretherketone (PEEK). Glass 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 • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber
Features	• Flame Retardant • High Heat Resistance • PFAS Free
Uses	• High Temperature Applications

**Properties <sup>1</sup>**

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.82	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage <sup>2</sup>			ISO 294-4
Across Flow : 0.0787 in	0.50 to 0.75	%	
Flow : 0.0787 in	0.25 to 0.40	%	
Water Absorption <sup>3</sup> (Saturation, 73°F)	0.040	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	3.34E+6	psi	ISO 527-1/1
Tensile Stress (Break, 73°F)	29000	psi	ISO 527-2/5
Tensile Strain (Break, 73°F)	1.2	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	4.8	ft·lb/in <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	17	ft·lb/in <sup>2</sup>	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)	1.1E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	1.9E-5	in/in/°F	ISO 11359-2
Thermal Conductivity			ASTM E1461
-- <sup>4</sup>	2.1	Btu·in/hr/ft <sup>2</sup> /°F	
-- <sup>5</sup>	4.2	Btu·in/hr/ft <sup>2</sup> /°F	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+12	ohms	ASTM D257
Dielectric Strength (73°F, 0.0787 in, Method A (Short-Time))	660	V/mil	ASTM D149
Comparative Tracking Index <sup>6</sup> (Solution A)	175	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
Oxygen Index	37	%	ASTM D2863

