LATAMID 66 E21 K/30

LATI INDUSTRIA TERMOPLASTICI SPA - *Polyamide 66*

General Information

Product Description

Compound based on Polyamide 66 (PA 66). Toughened. Carbon fibres. High stiffness. PFAS-free product.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Carbon Fiber		
Additive	• Impact Modifier		
Features	• Good Toughness	• Impact Modified	• PFAS Free

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.19	g/cm³	ISO 1183
Molding Shrinkage [2]			ISO 294-4
Across Flow : 0.0787 in	0.65 to 0.95	%	
Flow : 0.0787 in	0.25 to 0.45	%	
Water Absorption [3] (Saturation, 73°F)	1.4	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-1/1
73°F	2.76E+6	psi	
140°F	2.47E+6	psi	
194°F	1.70E+6	psi	
248°F	1.15E+6	psi	
302°F	841000	psi	
Tensile Stress			ISO 527-2/5
Break, 73°F	26100	psi	
Break, 140°F	20300	psi	
Break, 194°F	16000	psi	
Break, 248°F	13800	psi	
Break, 302°F	10900	psi	
Tensile Strain			ISO 527-2/5
Break, 73°F	1.8	%	
Break, 140°F	3.0	%	
Break, 194°F	3.2	%	
Break, 248°F	4.2	%	
Break, 302°F	4.3	%	

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-4°F	7.1	ft·lb/in²	
73°F	9.5	ft·lb/in²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-4°F	31	ft·lb/in²	
73°F	33	ft·lb/in²	

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	500	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	482	°F	ISO 75-2/A
Vicat Softening Temperature	464	°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)	2.8E-5	in/in/°F	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	3.0E+4	ohms	ASTM D257
Volume Resistivity	2.0E+5	ohms·cm	ASTM D257
Dielectric Strength (73°F, 0.0787 in, Method A (Short-Time))	100	V/mil	ASTM D149

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] 60 MPa

[3] in air