

HiFill® PEI TX5 LE

Polyether Imide

Techmer Engineered Solutions

Message:

HiFill® PEI TX5 LE is a Polyether Imide (PEI) product. It can be processed by injection molding and is available in North America. Primary characteristic: lubricated.

General Information			
Additive	PTFE Lubricant		
Features	Low Extractables		
	Lubricated		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.60	%	ASTM D955
Water Absorption (24 hr)	0.25	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	109		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	110	MPa	ASTM D638
Tensile Elongation (Break)	7.0	%	ASTM D638
Flexural Modulus	3520	MPa	ASTM D790
Flexural Strength	172	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	64	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	1300	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	214	°C	
1.8 MPa, Unannealed	198	°C	
CLTE - Flow	5.4E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength ¹	20	kV/mm	ASTM D149
Injection	Nominal Value	Unit	
Drying Temperature	141	°C	
Drying Time	3.0	hr	

Rear Temperature	357 to 391	°C
Middle Temperature	357 to 391	°C
Front Temperature	357 to 391	°C
Processing (Melt) Temp	354 to 388	°C
Mold Temperature	135 to 163	°C
Back Pressure	0.345 to 0.689	MPa
Screw Speed	50 to 100	rpm

NOTE

1. Method A (Short-Time)

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Recommended distributors for this material

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