

HiFill® PEEK 0162 T1 L MB

Polyetheretherketone

Techmer Engineered Solutions

Message:

HiFill® PEEK 0162 T1 L MB is a Polyetheretherketone (PEEK) product. It can be processed by injection molding and is available in North America. Primary characteristic: low viscosity.

General Information			
Features	Low Viscosity		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.60	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.0	%	ASTM D955
Water Absorption (24 hr)	0.12	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	79.3	MPa	ASTM D638
Tensile Elongation (Yield)	6.5	%	ASTM D638
Flexural Modulus	4480	MPa	ASTM D790
Flexural Strength	152	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	130	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	> 260	°C	ASTM D648
CLTE - Flow	4.7E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	ASTM D257
Volume Resistivity	> 1.0E+13	ohms · cm	ASTM D257
Dielectric Strength ¹	16	kV/mm	ASTM D149
Dielectric Constant ²	3.50		ASTM D150
Dissipation Factor	5.0E-3		ASTM D150
Injection	Nominal Value	Unit	
Drying Time	2.0 to 4.0	hr	
Rear Temperature	360 to 388	°C	
Middle Temperature	360 to 388	°C	
Front Temperature	360 to 388	°C	
Processing (Melt) Temp	360 to 382	°C	

Mold Temperature	177 to 218	°C
Back Pressure	0.345 to 0.689	MPa
Screw Speed	50 to 100	rpm

NOTE		
1.	Method A (Short-Time)	
2.	1KHz	

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