

HiFill FR® PC MCF/GB 1525 BK001

Polycarbonate

Techmer Engineered Solutions

Message:

HiFill FR® PC MCF/GB 1525 BK001 is a Polycarbonate (PC) product. It can be processed by injection molding and is available in North America.

Characteristics include:

Flame Rated

Flame Retardant

General Information			
Features	Flame Retardant		
Appearance	Colors Available		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.050	%	ASTM D955
Water Absorption (24 hr)	0.080	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7130	MPa	ASTM D638
Tensile Strength (Yield)	112	MPa	ASTM D638
Tensile Elongation (Yield)	3.5	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	53	J/m	ASTM D256
Unnotched Izod Impact (23°C, 3.18 mm)	590	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	152	°C	
1.8 MPa, Unannealed	149	°C	
CLTE - Flow	2.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+5	ohms	ASTM D257
Volume Resistivity	1.0E+2 to 1.0E+5	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	V-2		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	

Drying Time	4.0	hr
Rear Temperature	282 to 293	°C
Middle Temperature	282 to 293	°C
Front Temperature	282 to 293	°C
Processing (Melt) Temp	266 to 293	°C
Mold Temperature	82.2 to 121	°C
Back Pressure	0.345 to 0.689	MPa
Screw Speed	30 to 60	rpm

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Recommended distributors for this material

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