

HiFill® PC/PBT IM 5720 UV BK

Polycarbonate + PBT

Techmer Engineered Solutions

Message:

HiFill® PC/PBT IM 5720 UV BK is a Polycarbonate + PBT (PC+PBT) product. It can be processed by injection molding and is available in North America. Characteristics include:
Flame Rated
Good UV Resistance
Impact Modified
UV Stabilized

General Information			
Additive	Impact Modifier		
	UV Stabilizer		
Features	Good UV Resistance		
	Impact Modified		
Appearance	Black		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.70	%	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	113		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	48.3	MPa	ASTM D638
Tensile Elongation (Yield)	160	%	ASTM D638
Flexural Modulus	2000	MPa	ASTM D790
Flexural Strength	75.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-46°C, 3.18 mm	430	J/m	
-40°C, 3.18 mm	530	J/m	
-34°C, 3.18 mm	590	J/m	
23°C, 3.18 mm	750	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	118	°C	
1.8 MPa, Unannealed	98.9	°C	
CLTE - Flow	2.3E-5	cm/cm/°C	ASTM D696

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.57 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	98.9	°C	
Drying Time	4.0	hr	
Rear Temperature	238 to 266	°C	
Middle Temperature	238 to 266	°C	
Front Temperature	238 to 266	°C	
Processing (Melt) Temp	238 to 266	°C	
Mold Temperature	54.4 to 93.3	°C	
Back Pressure	0.172 to 0.414	MPa	
Screw Speed	30 to 60	rpm	

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