

HiFill® PC/PBT IM 6702 UV

Polycarbonate + PBT

Techmer Engineered Solutions

Message:

HiFill® PC/PBT IM 6702 UV 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	Colors Available		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.8	%	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	108		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	43.4	MPa	ASTM D638
Tensile Elongation (Break)	120	%	ASTM D638
Flexural Modulus	1790	MPa	ASTM D790
Flexural Strength	62.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C, 3.18 mm	640	J/m	
23°C, 3.18 mm	690	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	116	°C	
1.8 MPa, Unannealed	85.0	°C	
CLTE - Flow	9.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms · cm	ASTM D257

Dielectric Strength ¹	20	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.18 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	
NOTE			
1.	Method A (Short-Time)		

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