

HiFill® PC/PBT IM 5220 E UV

Polycarbonate + PBT

Techmer Engineered Solutions

Message:

HiFill® PC/PBT IM 5220 E 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	1.21	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/1.05 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.70	%	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	52.4	MPa	ASTM D638
Tensile Elongation (Yield)	130	%	ASTM D638
Flexural Modulus	2000	MPa	ASTM D790
Flexural Strength	84.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	690	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	107	°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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Recommended distributors for this material

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