

Plaslube® PC / PBT IM 5220 BK

Polycarbonate + PBT
Techmer Engineered Solutions

Message:

Plaslube® PC / PBT IM 5220 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
- Impact Modified
- Impact Resistant
- UV Stabilized

General Information			
Additive	Impact Modifier		
	UV Stabilizer		
Features	High Impact Resistance		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.21	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 (Yield)	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			ASTM D256
-40°C, 3.18 mm	290	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	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+16	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method

Flame Rating	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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