

## HiFill® PC/PBT IM 5220 E UV

Techmer Polymer Modifiers - Polycarbonate + PBT

### General

Material Status	• Commercial: Active
Availability	• North America
Additive	• Impact Modifier      • UV Stabilizer
Features	• Impact Modified      • UV Resistant
Appearance	• Colors Available
Processing Method	• Injection Molding

### Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.21		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/1.05 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	7.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	7600	psi	ASTM D638
Tensile Elongation (Yield)	130	%	ASTM D638
Flexural Modulus	290000	psi	ASTM D790
Flexural Strength	12200	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	13	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	225	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	210	°F	ASTM D648
CLTE - Flow	1.3E-5	in/in/°F	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 (0.06 in)	HB		UL 94

### Processing Information

Injection	Nominal Value	Unit
Drying Temperature	210	°F
Drying Time	4.0	hr
Rear Temperature	460 to 510	°F
Middle Temperature	460 to 510	°F
Front Temperature	460 to 510	°F
Processing (Melt) Temp	460 to 510	°F
Mold Temperature	130 to 200	°F
Back Pressure	25.0 to 60.0	psi
Screw Speed	30 to 60	rpm

