

HiFill® PC FR-1

Polycarbonate
Techmer Engineered Solutions

Message:

HiFill® PC FR-1 is a Polycarbonate (PC) product. It can be processed by injection molding and is available in North America.

Characteristics include:

- Flame Rated
- Flame Retardant
- Good UV Resistance
- Heat Stabilizer
- UV Stabilized

General Information			
UL YellowCard	E253782-101773909		
Additive	Flame Retardant		
	Heat Stabilizer		
	UV Stabilizer		
Features	Flame Retardant		
	Good UV Resistance		
	Heat Stabilized		
Appearance	Colors Available		
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)	0.60	%	ASTM D955
Water Absorption (24 hr)	0.15	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	62.1	MPa	ASTM D638
Tensile Elongation (Break)	95	%	ASTM D638
Flexural Modulus	2280	MPa	ASTM D790
Flexural Strength	89.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	270	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	132	°C	ASTM D648
CLTE - Flow	6.8E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method

Surface Resistivity	1.0E+16	ohms	ASTM D257
Volume Resistivity	1.0E+17	ohms·cm	ASTM D257
Dielectric Strength ¹	17	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.57 mm)	V-0		UL 94
NOTE			
1.	Method A (Short-Time)		

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