

HiFill FR® PP CO FR HS

Polypropylene Copolymer
Techmer Engineered Solutions

Message:

HiFill FR® PP CO FR HS is a Polypropylene Copolymer (PP Copolymer) product. It can be processed by injection molding and is available in North America.

Characteristics include:

- Flame Rated
- Copolymer
- Flame Retardant
- Heat Stabilizer

General Information			
UL YellowCard	E253782-101773918		
Additive	Heat Stabilizer		
Features	Copolymer		
	Flame Retardant		
	Heat Stabilized		
UL File Number	E157318		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.6	%	ASTM D955
Water Absorption (24 hr)	0.020	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	80		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	20.7	MPa	ASTM D638
Tensile Elongation (Yield)	100	%	ASTM D638
Flexural Modulus	1030	MPa	ASTM D790
Flexural Strength	31.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	57.2	°C	ASTM D648
CLTE - Flow	6.5E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	ASTM D257

Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength ¹	20	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	76.7	°C	
Drying Time	2.0 to 3.0	hr	
Rear Temperature	216 to 238	°C	
Middle Temperature	216 to 238	°C	
Front Temperature	216 to 238	°C	
Processing (Melt) Temp	199 to 227	°C	
Mold Temperature	26.7 to 48.9	°C	
Back Pressure	0.345 to 0.689	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	Method A (Short-Time)		

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