

HiFill® PP FR 2020

Polypropylene Copolymer

Techmer Engineered Solutions

Message:

HiFill® PP FR 2020 is a Polypropylene Copolymer (PP Copolymer) product. It can be processed by injection molding and is available in North America.

Characteristics include:

Flame Rated

Flame Retardant

Copolymer

General Information			
Additive	Flame Retardant		
Features	Copolymer		
	Flame Retardant		
Appearance	Colors Available		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.960	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/1.05 kg)	12	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	4.0	%	ASTM D955
Water Absorption (24 hr)	0.015	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	24.8	MPa	ASTM D638
Tensile Elongation (Break)	80	%	ASTM D638
Flexural Modulus	1030	MPa	ASTM D790
Flexural Strength	40.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	120	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	87.8	°C	
1.8 MPa, Unannealed	71.1	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength ¹	18	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		UL 94
Additional Information	Nominal Value		Test Method
TPCI #	Pass		DIN 4102-B2
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	221	°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)

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

