

HiFill® PP FR 2020

 Techmer Polymer Modifiers - *Polypropylene Copolymer*
General Information
General

Material Status	• Commercial: Active
Availability	• North America
Additive	• Flame Retardant
Features	• Copolymer • Flame Retardant
Appearance	• Colors Available
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.962		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/1.05 kg)	12	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	0.040	in/in	ASTM D955
Water Absorption (24 hr)	0.015	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	3600	psi	ASTM D638
Tensile Elongation (Break)	80	%	ASTM D638
Flexural Modulus	150000	psi	ASTM D790
Flexural Strength	5800	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	2.3	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	190	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	160	°F	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength (Method A (Short-Time))	450	V/mil	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	V-0		UL 94
Additional Information	Nominal Value	Unit	Test Method
TPCI #	Pass		DIN 4102-B2

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	170	°F
Drying Time	2.0 to 3.0	hr
Rear Temperature	420 to 460	°F
Middle Temperature	420 to 460	°F
Front Temperature	420 to 460	°F
Processing (Melt) Temp	430	°F
Mold Temperature	80 to 120	°F
Back Pressure	50.0 to 100	psi
Screw Speed	30 to 60	rpm

