

HiFill FR® PPO / HIPS MM20 FR

Techmer Polymer Modifiers - Polyphenylene Ether + PS

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Mineral, 20% Filler by Weight
Features	• Flame Retardant
Appearance	• Colors Available
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.24		ASTM D792
Molding Shrinkage - Flow (0.125 in)	6.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.060	%	ASTM D570
Mechanical			
Tensile Strength (Yield)	11000	psi	ASTM D638
Tensile Elongation (Break)	20	%	ASTM D638
Flexural Modulus	510000	psi	ASTM D790
Flexural Strength (Yield)	17000	psi	ASTM D790
Impact			
Notched Izod Impact (0.125 in)	2.4	ft-lb/in	ASTM D256
Hardness			
Rockwell Hardness (R-Scale)	106		ASTM D785
Thermal			
Deflection Temperature Under Load (66 psi, Unannealed)	259	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	240	°F	ASTM D648
CLTE - Flow	2.0E-5	in/in/°F	ASTM D696
Electrical			
Volume Resistivity	1.0E+17	ohms·cm	ASTM D257
Dielectric Strength (Method A (Short-Time))	440	V/mil	ASTM D149
Flammability			
Flame Rating (0.06 in)	V-0		UL 94

