

## HiFill FR® PPO / HIPS MM20 IM FR

Techmer Polymer Modifiers - Polyphenylene Ether + PS

### General

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

### Properties <sup>1</sup>

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density / Specific Gravity	1.23		ASTM D792
Molding Shrinkage - Flow (0.125 in)	6.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.060	%	ASTM D570
<b>Mechanical</b>			
Tensile Strength (Yield)	9500	psi	ASTM D638
Tensile Elongation (Break)	8.0	%	ASTM D638
Flexural Modulus	430000	psi	ASTM D790
Flexural Strength (Yield)	15000	psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact (0.125 in)	2.5	ft·lb/in	ASTM D256
<b>Hardness</b>			
Rockwell Hardness (R-Scale)	106		ASTM D785
<b>Thermal</b>			
Deflection Temperature Under Load (66 psi, Unannealed)	209	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	200	°F	ASTM D648
CLTE - Flow	2.0E-5	in/in/°F	ASTM D696
<b>Electrical</b>			
Volume Resistivity	1.0E+17	ohms·cm	ASTM D257
Dielectric Strength (Method A (Short-Time))	450	V/mil	ASTM D149
<b>Flammability</b>			
Flame Rating (0.06 in)	V-0		UL 94

