

HiFill FR® HIPS 1000 FR-E

Techmer Polymer Modifiers - *High Impact Polystyrene*

General Information

General

Material Status	• Commercial: Active
Availability	• North America
Features	• Flame Retardant
RoHS Compliance	• RoHS Compliant
Appearance	• Colors Available
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.15		ASTM D792
Molding Shrinkage - Flow (0.125 in)	4.5E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.050	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	2900	psi	ASTM D638
Tensile Elongation (Break)	30	%	ASTM D638
Flexural Modulus	280000	psi	ASTM D790
Flexural Strength	3800	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	1.8	ft·lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	8.0	ft·lb/in	ASTM D4812
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	60		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	205	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	190	°F	ASTM D648
CLTE - Flow	3.5E-5	in/in/°F	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Dielectric Strength (Method A (Short-Time))	550	V/mil	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	V-0		UL 94

Notes

¹ Typical properties: these are not to be construed as specifications.

