

HiFill® ASA GF20

Techmer Polymer Modifiers - Acrylonitrile Styrene Acrylate

General Information

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Additive	• UV Stabilizer
Features	• UV Resistant
Appearance	• Colors Available
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.21		ASTM D792
Molding Shrinkage - Flow (0.125 in)	5.0E-4	in/in	ASTM D955
Water Absorption (24 hr)	0.13	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	12000	psi	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	800000	psi	ASTM D790
Flexural Strength	18000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	0.80	ft·lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	3.0 to 4.0	ft·lb/in	ASTM D4812
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	240	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	225	°F	ASTM D648
CLTE - Flow	1.9E-5	in/in/°F	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength (Method A (Short-Time))	500	V/mil	ASTM D149

Notes

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

