

HiFill® ABS E GM5 LE

Acrylonitrile Butadiene Styrene

Techmer Engineered Solutions

Message:

HiFill® ABS E GM5 LE is an Acrylonitrile Butadiene Styrene (ABS) product filled with 5.0% glass fiber. It can be processed by extrusion and is available in North America.

General Information			
Filler / Reinforcement	Glass Fiber,5.0% Filler by Weight		
Features	Low Extractables		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.20	%	ASTM D955
Water Absorption (24 hr)	0.13	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	107		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	52.4	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	2760	MPa	ASTM D790
Flexural Strength	81.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	80	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	350	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	112	°C	
1.8 MPa, Unannealed	103	°C	
CLTE - Flow	3.4E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength ¹	18	kV/mm	ASTM D149
NOTE			

1. Method A (Short-Time)

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Recommended distributors for this material

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