HiFill PA6 GF20 RM BK

Polyamide 6

Techmer Engineered Solutions

Message:

HiFill® PA6 GF20 RM BK is a Polyamide 6 (Nylon 6) product filled with 20% glass fiber. It can be processed by injection molding and is available in North America. Primary characteristic: low moisture absorption.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Low Moisture Absorption		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.28	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.40	%	ASTM D955
Water Absorption (24 hr)	0.90	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	115		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break)	138	MPa	ASTM D638
Tensile Elongation (Break)	3.5	%	ASTM D638
Flexural Modulus	6890	MPa	ASTM D790
Flexural Strength	207	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm)	80	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	204	°C	ASTM D648
CLTE - Flow	2.0E-5	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Injection	**Nominal Value**	**Unit**	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Rear Temperature	260 to 304	°C	
Middle Temperature	260 to 304	°C	
Front Temperature	260 to 304	°C	
Processing (Melt) Temp	243 to 271	°C	
Mold Temperature	65.6 to 93.3	°C	
Back Pressure	0.00 to 0.345	MPa	

Screw Speed	30 to 60	rpm

Recommended distributors for this material

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