

HiFill FR® PA12 IM FR

Polyamide 12
Techmer Engineered Solutions

Message:

HiFill FR® PA12 IM FR is a Polyamide 12 (Nylon 12) product. It can be processed by injection molding and is available in North America. Characteristics include:
Flame Retardant
Impact Modified
Lubricated

General Information			
Additive	Impact Modifier		
	Lubricant		
Features	Flame Retardant		
	Impact Modified		
	Lubricated		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.21	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.60	%	ASTM D955
Water Absorption (24 hr)	0.25	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	55		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	51.7	MPa	ASTM D638
Tensile Elongation (Yield)	50	%	ASTM D638
Flexural Modulus	827	MPa	ASTM D790
Flexural Strength	68.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	530	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	93.3	°C	
1.8 MPa, Unannealed	60.0	°C	
CLTE - Flow	1.3E-4	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+11	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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