

HiFill® PA12 CM40

Polyamide 12

Techmer Engineered Solutions

Message:

HiFill® PA12 CM40 is a Polyamide 12 (Nylon 12) product filled with 40% mineral. It can be processed by injection molding and is available in North America. Primary characteristic: lubricated.

General Information			
Filler / Reinforcement	Mineral,40% Filler by Weight		
Additive	Lubricant		
Features	Lubricated		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.26	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.60	%	ASTM D955
Water Absorption (24 hr)	0.12	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	73.1	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	3450	MPa	ASTM D790
Flexural Strength	129	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	85	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	138	°C	
1.8 MPa, Unannealed	54.4	°C	
CLTE - Flow	4.1E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
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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