

HiFill® PA12 CL

Polyamide 12
Techmer Engineered Solutions

Message:
HiFill® PA12 CL is a Polyamide 12 (Nylon 12) product. It is available in North America.

General Information			
Appearance	Clear/Transparent		
	Colors Available		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	12	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	1.1	%	ASTM D955
Water Absorption (24 hr)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	85		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	81.4	MPa	ASTM D638
Tensile Elongation (Yield)	10	%	ASTM D638
Flexural Modulus	2030	MPa	ASTM D790
Flexural Strength	98.6	MPa	ASTM D790
Poisson's Ratio	0.40		ASTM E132
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	154	°C	
1.8 MPa, Unannealed	149	°C	
Vicat Softening Temperature	108	°C	ASTM D1525 ¹
CLTE - Flow	7.2E-5	cm/cm/°C	ASTM D696
Optical	Nominal Value	Unit	Test Method
Transmittance	89.0 to 90.0	%	ASTM D1003
Haze	0.70	%	ASTM D1003
NOTE			
1.	Rate B (120°C/h)		

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