

HiFill® PA12 CL

Techmer Polymer Modifiers - *Polyamide 12*

General Information

General

Material Status	• Commercial: Active
Availability	• North America
Appearance	• Clear/Transparent • Colors Available
Forms	• Pellets

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.06		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	12	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	0.011	in/in	ASTM D955
Water Absorption (24 hr)	0.30	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	11800	psi	ASTM D638
Tensile Elongation (Yield)	10	%	ASTM D638
Flexural Modulus	295000	psi	ASTM D790
Flexural Strength	14300	psi	ASTM D790
Poisson's Ratio	0.40		ASTM E132
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	1.0	ft-lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	85		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	310	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	300	°F	ASTM D648
Vicat Softening Temperature	226	°F	ASTM D1525 ²
CLTE - Flow	4.0E-5	in/in/°F	ASTM D696
Optical	Nominal Value	Unit	Test Method
Light Transmittance	89.0 to 90.0	%	ASTM D1003
Haze	0.700	%	ASTM D1003

Notes

¹ Typical properties: these are not to be construed as specifications.

² Rate B (120°C/h)

