Monday, May 11, 2026

HiFill® PA12 CL

Techmer Polymer Modifiers - *Polyamide 12*

Units SI

Action **Legend (Open)**

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	g/cm³	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
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
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	85		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	154	°C	ASTM D648
Deflection Temperature Under Load (1.8 MPa, Unannealed)	149	°C	ASTM D648
Vicat Softening Temperature	108	°C	ASTM D1525 [2]
CLTE - Flow	7.2E-5	cm/cm/°C	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)

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