Monday, May 11, 2026

HiFill® PA12 1100

Techmer Polymer Modifiers - *Polyamide 12*

Units SI

Action **Legend (Open)**

General Information

General	
Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Tungsten
Appearance	• Colors Available
Forms	• Pellets
Processing Method	• Injection Molding

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	11.0	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.20	%	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	35.2	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	6890	MPa	ASTM D790
Flexural Strength	48.3	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm)	350	J/m	ASTM D256
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	120		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	121	°C	ASTM D648
Deflection Temperature Under Load (1.8 MPa, Unannealed)	108	°C	ASTM D648
CLTE - Flow	1.6E-5	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0 to 1.0E+2	ohms·cm	ASTM D257

Notes

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

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