Monday, May 11, 2026

HiFill FR® PA12 IM FR

Techmer Polymer Modifiers - *Polyamide 12*

Units SI

Action **Legend (Open)**

General Information

General			
Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Impact Modifier	• Lubricant	
Features	• Flame Retardant	• Impact Modified	• Lubricated
Appearance	• Colors Available		
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.21	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.60	%	ASTM D955
Water Absorption (24 hr)	0.25	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	51.7	MPa	ASTM D638
Tensile Elongation (Yield)	50	%	ASTM D638
Flexural Modulus	827	MPa	ASTM D790
Flexural Strength	68.9	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm)	530	J/m	ASTM D256
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	55		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	93.3	°C	ASTM D648
Deflection Temperature Under Load (1.8 MPa, Unannealed)	60.0	°C	ASTM D648
CLTE - Flow	1.3E-4	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+11	ohms·cm	ASTM D257
Dielectric Strength (Method A (Short-Time))	18	kV/mm	ASTM D149

Notes

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

powered by PROSPECTOR®

UL LLC ©2026. All rights reserved.

www.ulprospector.com

The information presented here was acquired by UL from the producer of the product or material or original information provider. However, UL assumes no responsibility or liability for the accuracy of the information contained on this website and strongly encourages that upon final product or material selection information is validated with the manufacturer. This website provides links to other websites owned by third parties. The content of such third party sites is not within our control, and we cannot and will not take responsibility for the information or content.