Monday, May 11, 2026

Electrafil® PA12 2412 3DP

Techmer Polymer Modifiers - *Polyamide 12*

Units SI

Action **Legend (Open)**

General Information

Product Description

Electrafil® PA12 2412 3DP is a specially formulated, black colored, and compounded thermoplastic material designed for general purpose additive manufacturing applications. This product has been optimized for maximum printability in additive manufacturing.

General	
Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Carbon Fiber
Uses	• Additive Manufacturing (3D Printing)

Properties [1]

Physical	**Nominal Value**	**Unit**	**Test Method**
Density / Specific Gravity	1.10	g/cm³	ASTM D792
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	82.7	MPa	ASTM D638
Tensile Elongation (Break)	8.0	%	ASTM D638
Flexural Modulus	4480	MPa	ASTM D790
Flexural Strength	103	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm)	130	J/m	ASTM D256

Additional Information	**Nominal Value**	**Unit**
Recommended Print Bed	Glass epoxy sheet, PEI sheet, heated aluminum bed, beadboard	
Recommended Print Bed Temperature	49 to 60	°C

Processing Information

Extrusion	**Nominal Value**	**Unit**
Drying Temperature	82	°C
Drying Time	2.0 to 6.0	hr
Cylinder Zone 1 Temp.	210 to 232	°C
Cylinder Zone 2 Temp.	216 to 238	°C
Cylinder Zone 3 Temp.	227 to 249	°C
Cylinder Zone 4 Temp.	232 to 260	°C
Melt Temperature	238 to 271	°C
Die Temperature	232 to 271	°C

Extrusion Notes

If drying for longer than 6 hours, recommend reducing the temperature to 100°F in a dessiccant dryer to avoid degradaton of the material.

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.