

Ixef® LF-1050 BK 000-9

polyarylamide

Ixef® LF-1050 BK 000-9 is a black 50% Long Glass Fiber reinforced, heat stabilized polyarylamide PARA with excellent surface gloss, low moisture absorption and high heat deflection temperature. It exhibits unique stiffness/toughness combination, an excellent retention of

properties in a wide temperature range, as well as outstanding creep resistance.

Ixef® LF-1050 BK 000-9 has a pellet length of 9mm and can be processed on most injection-molding machines.

General

Material Status	• Commercial: Active
Availability	<ul style="list-style-type: none"> • Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Long Glass Fiber, 50% Filler by Weight
Features	<ul style="list-style-type: none"> • Creep Resistant • Electrically Insulating • Fatigue Resistant • High Gloss • High Impact Resistance • High Temperature Stiffness • Low CLTE • Low Shrinkage • Low Warp
Uses	<ul style="list-style-type: none"> • Aircraft Applications • Automotive Applications • Consumer Applications • Industrial Applications
RoHS Compliance	• Contact Manufacturer
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Typical Value	Unit	Test method
Density	1.64	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	1.2	%	ISO 62
Mold Shrinkage - Flow ¹	0.10 to 0.30	%	Internal Method

Mechanical	Typical Value	Unit	Test method
Tensile Modulus			ISO 527-2
23°C	22000	MPa	
70°C	20000	MPa	
Tensile Stress			ISO 527-2
23°C	265	MPa	
70°C	205	MPa	
Tensile Strain (Break)	1.6	%	ISO 527-2
Flexural Modulus (23°C)	21000	MPa	ISO 178
Flexural Stress (23°C)	405	MPa	ISO 178

Impact	Typical Value	Unit	Test method
Charpy Notched Impact Strength (23°C)	34	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	60	kJ/m ²	ISO 179

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Thermal	Typical Value	Unit	Test method
Heat Deflection Temperature			
0.45 MPa, Unannealed	260	°C	ISO 75-2/B
1.8 MPa, Unannealed	255	°C	ISO 75-2/A

Injection	Typical Value	Unit
Drying Temperature	120	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.080	%
Rear Temperature	280 to 300	°C
Middle Temperature	280 to 310	°C
Front Temperature	280 to 310	°C
Nozzle Temperature	270 to 310	°C
Processing (Melt) Temp	< 310	°C
Mold Temperature	120 to 140	°C

Injection Notes

Pre-Drying

- Since polyamides are hygroscopic materials as well as sensitive to moisture during processing, this product should always be pre-dried.

Regrind

- Regrind of highly filled thermoplastic materials, such as this material, should only be recycled with special care. The regrind content must never exceed 20% and only regrind of optimum quality should be used. In any case, part properties should be checked.

Notes

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

¹ Tested in accordance with Specialty Polymers methods.



Safety Data Sheets (SDS) are available by emailing us or contacting your sales representative. Always consult the appropriate SDS before using any of our products.

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