



Ixef[®] 3008

polyarylamide

Ixef 3008 is a 30% carbon-fiber reinforced polyarylamide compound which exhibits extremely high strength and stiffness, good surface gloss, excellent creep resistance, and lower density than glass-fiber reinforced engineering resins.

Black: Ixef 3008/9008

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • Asia Pacific • North America • South America
Filler / Reinforcement	• Carbon Fiber Reinforcement, 30% Filler by Weight
Features	• Good Creep Resistance • High Gloss • Good Dimensional Stability • High Stiffness • Low Density • High Flow • High Strength • Low Moisture Absorption
RoHS Compliance	• Contact Manufacturer
Forms	• Pellets
Processing Method	• Injection Molding

Physical

	Typical Value	Unit	Test Method
Density	1.34	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹	0.030 to 0.10	%	Internal Method
Water Absorption			
24 hr, 23°C	0.22	%	ISO 62
Equilibrium, 65% RH	2.0	%	Internal Method

Mechanical

	Typical Value	Unit	Test Method
Tensile Modulus	26000	MPa	ISO 527-2
Tensile Stress (Yield)	250	MPa	ISO 527-2
Tensile Strain (Break)	1.3	%	ISO 527-2
Flexural Modulus	23000	MPa	ISO 178
Flexural Strength	360	MPa	ISO 178

Impact

	Typical Value	Unit	Test Method
Charpy Notched Impact Strength	3.6	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	36	kJ/m ²	ISO 179
Notched Izod Impact	58.7	J/m	ASTM D256
Unnotched Izod Impact	448	J/m	ASTM D256

Thermal

	Typical Value	Unit	Test Method
Heat Deflection Temperature			ISO 75-2/A
1.8 MPa, Unannealed	230	°C	

Electrical

	Typical Value	Unit	Test Method
Volume Resistivity	3.0E+3	ohm-cm	ASTM D257
Comparative Tracking Index	600	V	IEC 60112

Flammability

	Typical Value	Unit	Test Method
Flame Rating - UL ²	HB		UL 94

Flammability	Typical Value	Unit	Test Method
Oxygen Index	23	%	ISO 4589-2

Injection	Typical Value	Unit
Drying Temperature	120	°C
Drying Time	0.50 to 1.5	hr
Rear Temperature	250 to 260	°C
Front Temperature	260 to 290	°C
Processing (Melt) Temp	280	°C
Mold Temperature	120 to 140	°C

Injection Notes

Hot Runner: 482° to 500°F

Injection Pressure: rapid

Notes

¹ Solvay Internal procedure, Pressure 750 bars (10.9 kpsi); specimen 40 mm x 20 mm x 2-4 mm. (1.6 in. x 0.8 in. x 0.08-0.16 in.)

² These flammability ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions.

For assistance with an emergency involving products of Solvay Advanced Polymers, such as a spill, leak, fire, or explosion, call day or night:

Emergency Health Information

USA +1.800.621.4590

International +1.770.772.8577

Emergency Spill Information

USA +1.800.424.9300 / +1.703.527.3887

(CHEMTREC)

Europe +44 208.762.8322 (CARECHEM)

China +86.10.5100.3039

All other Asian countries +65.633.44.177

For additional product information, technical assistance, and Material Safety Data Sheets (MSDS), call:

USA + 1.800.621.4557/ +1.770.772.8760

Europe +49.211.5135.9000

Japan +81.3.5425.4300

China & Southeast Asia +86.21.5080.5080

World Headquarters

Solvay Advanced Polymers, L.L.C.

4500 McGinnis Ferry Road

Alpharetta, GA 30005 USA

+1.800.621.4557 (U.S.A.)

+1.770.772.8760

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Material Safety Data Sheets (MSDS) for products of Solvay Advanced Polymers are available upon request from your sales representative or by emailing us at advancedpolymers@solvay.com. Always consult the appropriate MSDS before using any of our products.

Property values for individual batches will vary within specification limits. Unless otherwise noted, values shown are typical for uncolored resin; colorants may alter values. For Preliminary Data Sheets, values are typical of limited production and specifications are not yet established.

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