



Ixef[®] 1002

polyarylamide

Ixef 1002 is a 30% glass-fiber reinforced, general purpose polyarylamide compound which exhibits high strength and rigidity, outstanding surface finish, and excellent creep resistance.

Colors Available:

- Black: Ixef 1002/9008
- Natural: Ixef 1002/0008

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Asia Pacific • Europe • North America • South America
Filler / Reinforcement	• Glass Fiber Reinforcement, 30% Filler by Weight
Features	• Good Chemical Resistance • Good Creep Resistance • Good Dimensional Stability • Good Processability • Good Surface Finish • High Rigidity • High Strength • Low Moisture Absorption
Uses	• Appliance Components • Appliances • Automotive Electronics • Business Equipment • Cams • Electrical Housing • Electrical/Electronic Applications • Furniture • Gears • Industrial Applications • Lawn and Garden Equipment • Machine/Mechanical Parts • Metal Replacement • Power/Other Tools
RoHS Compliance	• RoHS Compliant
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Physical

	Typical Value	Unit	Test Method
Density	1.43	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.10 to 0.40	%	Internal Method
Water Absorption (24 hr, 23°C)	0.20	%	ISO 62
Moisture Absorption (Equil, 65% RH)	1.9	%	Internal Method

Mechanical

	Typical Value	Unit	Test Method
Tensile Modulus	11500	MPa	ISO 527-2
Tensile Stress (Break)	190	MPa	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2
Flexural Modulus	11500	MPa	ISO 178
Flexural Strength	285	MPa	ISO 178

Impact

	Typical Value	Unit	Test Method
Notched Izod Impact	70.0	J/m	ASTM D256
Unnotched Izod Impact	460	J/m	ASTM D256

Thermal

	Typical Value	Unit	Test Method
Heat Deflection Temperature 1.8 MPa, Unannealed	230	°C	ISO 75-2/A
CLTE - Flow	0.000018	cm/cm/°C	ISO 11359-2

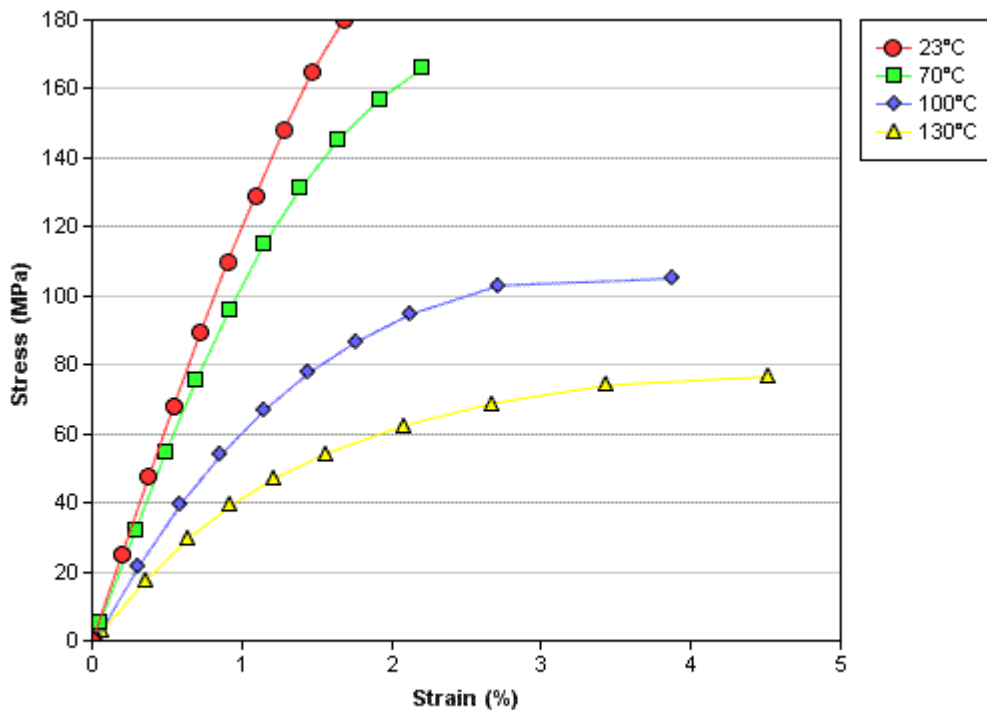
Electrical	Typical Value	Unit	Test Method
Volume Resistivity	1.0E+13	ohm-cm	IEC 60093
Dielectric Constant (110 Hz)	3.90		IEC 60250
Dissipation Factor (110 Hz)	0.010		IEC 60250
Comparative Tracking Index	400	V	IEC 60112
Electric Strength	30	kV/mm	IEC 60243-1
Flammability	Typical Value	Unit	Test Method
Flame Rating - UL ¹	HB		UL 94
Oxygen Index	25	%	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 Rate	Fast	

Injection Notes

Hot runners: 482° to 500°F
Injection Pressure: rapid

Isothermal Stress vs. Strain (ISO 11403-1)



Notes

¹ 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

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China & Southeast Asia +86.21.5080.5080

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SOLVAY
Advanced Polymers



MORE PLASTICS WITH MORE PERFORMANCE™

Solvay Advanced Polymers has many locations around the world. Please visit our website for the office nearest you, or email advancedpolymers@solvay.com for assistance. www.solvayadvancedpolymers.com

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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