

Ixef® 1521

Polyarylamide
Solvay Specialty Polymers

Message:

The Ixef1521 is 50% glass fiber reinforced flame retardant polyaramid. It has high strength and rigidity, excellent surface gloss, and excellent creep resistance. -Black: Ixef 1002/9008
natural color: Ixef 1002/0008
customers can color by themselves

General Information	
UL YellowCard	E95746-264545
Filler / Reinforcement	Glass fiber reinforced material, 50% filler by weight
Additive	Flame retardancy
Features	Super rigidity
	Good dimensional stability
	Excellent appearance
	Low hygroscopicity
	High strength
	Good creep resistance
	High liquidity
	Good chemical resistance
	Flame retardancy
Uses	Lawn and Garden Equipment
	Bushing
	Gear
	Electrical appliances
	Power/other tools
	Aircraft applications
	Industrial application
	Machine/mechanical parts
	Home appliance components
	Furniture
	Metal substitution
	Parts under the hood of a car
	Automotive Electronics
	Application in Automobile Field
	Business equipment
	Camera application
Agency Ratings	FAA FAR 25.853a

RoHS Compliance	RoHS compliance
Appearance	Black Available colors Natural color
Forms	Particle
Processing Method	Injection molding
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1) Secant Modulus vs. Strain (ISO 11403-1) Viscosity vs. Shear Rate (ISO 11403-2)

Physical	Nominal Value	Unit	Test Method
Density	1.75	g/cm ³	ISO 1183
Molding Shrinkage	0.10 - 0.30	%	Internal method
Water Absorption (23°C, 24 hr)	0.15	%	ISO 62
Water absorption-Equil, 65% RH	1.3	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	20000	MPa	ISO 527-2
Tensile Stress (Break)	230	MPa	ISO 527-2
Tensile Strain (Break)	1.9	%	ISO 527-2
Flexural Modulus	20000	MPa	ISO 178
Flexural Stress (23°C)	340	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	95	J/m	ASTM D256
Unnotched Izod Impact	700	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	230	°C	ISO 75-2/A
CLTE - Flow	1.7E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+13	ohms · cm	IEC 60093
Dielectric Strength	29	kV/mm	IEC 60243-1
Dielectric Constant (110 Hz)	4.10		IEC 60250
Dissipation Factor (110 Hz)	0.012		IEC 60250
Comparative Tracking Index	400	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750, Black ¹	V-0		UL 94
1.50, colored	V-0		UL 94
1.50, Black	5VA		UL 94
Glow Wire Flammability Index			IEC 60695-2-12
0.800 mm	960	°C	IEC 60695-2-12

1.50 mm	960	°C	IEC 60695-2-12
3.00 mm	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			IEC 60695-2-13
0.800 mm	900	°C	IEC 60695-2-13
1.50 mm	930	°C	IEC 60695-2-13
3.00 mm	900	°C	IEC 60695-2-13
Oxygen Index	32	%	ISO 4589-2

Injection	Nominal Value	Unit
Drying Temperature	120	°C
Drying Time	0.50 - 1.5	hr
Rear Temperature	250 - 260	°C
Front Temperature	260 - 290	°C
Processing (Melt) Temp	270	°C
Mold Temperature	120 - 140	°C
Injection Rate	Fast	

Injection instructions

热流道系统:250 °C~260 °C (482°F~500 °F) 干燥:

所提供的成型用材料无需干燥处理.但是,如果袋已被打开超过24小时,必须先干燥材料.如果使用的除湿空气干燥机露点为-28 °C (-18 °F)或更低,应遵循以下规则:120 °C(248 °F)温度下 0.5~1.5小时, 100°C C(212°F)温度下1~3个小时,或80 °C(176 °F)温度下1-7个小时. 注塑成型: IXEF 1521混合物在大多数螺杆注塑机上均可以很容易地注射成型.建议采用通用螺杆,取最小背压. 测得的熔融温度应该在280°C (536 °F)左右,机筒后端温度应该在250~260°C (482~500°F)左右,前端逐渐增至260 °C~290°C (500~554 °F).如果使用热流道,温度应设置为250~260 °C(482~500 °F) . 为了最大限度地提高结晶度,模腔表面温度必须保持在120~140°C(248~284°F)之间.成型温度低,容易产生翘曲,外观不良,并极可能产生蠕变.射出压力的设定应确保快速射出.调整保压压力和时间,尽可能提高零件的重量.部件正好完全填充完毕(95-99%)前,将注塑件从射出部位转移到螺杆位置进行保压.

NOTE

- These flammability ratings do not represent the risk of these materials or any other materials in actual fire situations.

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT