

Mitsui Arlenâ„ç C230 30% Glass Fiber-Reinforced Modified Nylon 6T (DAM)

Category : Polymer , Thermoplastic , Nylon

Material Notes:

ARLENâ„ç is a heat resistant, modified polyamide 6T developed by Mitsui Chemicals, Inc. With a high melting point (320Â°C) and a rigidity level comparable to super engineering plastics, it possesses strong dimensional stability and chemical resistance. In addition, the effect of water absorption, which is a traditional weakness of polyamides, has been reduced to a minimum. Applications:

ConnectorsJacksSwitchesPower supply terminalsVarious casesInformation provided by Mitsui.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Mitsui-Arlen-C230-30-Glass-Fiber-Reinforced-Modified-Nylon-6T-DAM.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/inÂ³	ASTM D792
Filler Content	30 %	30 %	
Water Absorption	0.3 %	0.3 %	24 hours in 23Â°C water; ASTM D570
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	3.0 %	3.0 %	24 hours in 100Â°C water; ASTM D570
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Linear Mold Shrinkage, Flow	0.0050 cm/cm	0.0050 in/in	ASTM D955
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	Vertical Direction; ASTM D955
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	110	110	ASTM D785
Tensile Strength at Break	170 MPa	24700 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	Measured between the chucks; ASTM D638
Flexural Strength	260 MPa	37700 psi	ASTM D790
Flexural Modulus	10.0 GPa	1450 ksi	ASTM D790
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 Âµm/m-Â°C	27.8 Âµin/in-Â°F	Vertical Direction; ASTM D696

Thermal Properties	Metric @Temperature 20.0 Â°C	English @Temperature 68.0 Â°F	Comments
CTE, linear, Parallel to Flow	24.0 Âµm/m-Â°C @Temperature 20.0 Â°C	13.3 Âµin/in-Â°F @Temperature 68.0 Â°F	ASTM D696
Melting Point	310 Â°C	590 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	300 Â°C	572 Â°F	ASTM D648
Glass Transition Temp, Tg	85.0 Â°C	185 Â°F	
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Constant	4.5 @Frequency 1e+6 Hz	4.5 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	28.0 kV/mm	711 kV/in	ASTM D149
Dissipation Factor	0.018 @Frequency 1e+6 Hz	0.018 @Frequency 1e+6 Hz	ASTM D150

Processing Properties	Metric	English	Comments
Feed Temperature	50.0 - 90.0 Â°C	122 - 194 Â°F	Hopper Bottom for Electronic and Electric Standard Molding
	50.0 - 90.0 Â°C	122 - 194 Â°F	Hopper Bottom Temp for Mechanical and Structural Standard Molding
Nozzle Temperature	315 - 335 Â°C	599 - 635 Â°F	NH Cylinder Temp for Electronic and Electric Standard Molding
	325 - 340 Â°C	617 - 644 Â°F	NH Cylinder Temp for Mechanical and Structural Standard Molding
Zone 1	300 - 325 Â°C	572 - 617 Â°F	C1 Cylinder Temp for Electronic and Electric Standard Molding
	315 - 330 Â°C	599 - 626 Â°F	C1 Cylinder Temp for Mechanical and Structural Standard Molding
Zone 2	315 - 335 Â°C	599 - 635 Â°F	C2 Cylinder Temp for Electronic and Electric Standard Molding
	320 - 335 Â°C	608 - 635 Â°F	C2 Cylinder Temp for Mechanical and Structural Standard Molding
Zone 3	320 - 335 Â°C	608 - 635 Â°F	C3 Cylinder Temp for Electronic and Electric Standard Molding

Processing Properties	725 - 340 Â°C Metric	517 - 644 Â°F English	C3 Cylinder Temp for Mechanical and Structural Standard Molding Comments
Mold Temperature	90.0 - 140 Â°C	194 - 284 Â°F	for Electronic and Electric Standard Molding
	90.0 - 140 Â°C	194 - 284 Â°F	for Mechanical and Structural Standard Molding
Screw Speed	150 rpm	150 rpm	for Mechanical and Structural Standard Molding
	150 rpm	150 rpm	for Electronic and Electric Standard Molding

Descriptive Properties	Value	Comments
Injection Pressure	Medium	Electronic and Electric Standard Molding
	Medium	Mechanical and Structural Standard Molding
Injection Speed	Medium	Electronic and Electric Standard Molding
	Medium	Mechanical and Structural Standard Molding

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