Mitsui Arlenâ„¢ CH230N 30% Glass Fiber-Reinforced Modified Nylon 6T, Flame Retardant (COND)

Category : Polymer , Thermoplastic , Nylon

Material Notes:

ARLENâ„¢ 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-CH230N-30-Glass-Fiber-Reinforced-Modified-Nylon-6T-Flame-Retardant-COND.php

Physical Properties	Metric	English	Comments
Density	1.63 g/cc	0.0589 lb/inÂ³	ASTM D792
Filler Content	30 %	30 %	
Water Absorption	0.30 % @Thickness 2.00 mm	0.30 % @Thickness 0.0787 in	24 hours in 23Â°C water; ASTM D570
	3.0 % @Thickness 2.00 mm	3.0 % @Thickness 0.0787 in	24 hours in 100Â°C water; ASTM D570
Linear Mold Shrinkage, Flow	0.0040 cm/cm @Thickness 2.00 mm	0.0040 in/in @Thickness 0.0787 in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0080 cm/cm @Thickness 2.00 mm	0.0080 in/in @Thickness 0.0787 in	Vertical Direction; ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	140 MPa	20300 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	Measured between the chucks; ASTM D638
Flexural Strength	200 MPa	29000 psi	ASTM D790
Flexural Modulus	8.00 GPa	1160 ksi	ASTM D790
Izod Impact, Notched	0.900 J/cm	1.69 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 Âµm/m-Â°C @Temperature 20.0	33.3 Âµin/in-Â°F	Vertical Direction; ASTM D696

Thermal Properties	Metric	English	Comments
	Â°C	@Temperature 68.0 Â°F	
CTE, linear, Parallel to Flow	30.0 Âµm/m-Â°C @Temperature 20.0 Â°C	16.7 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)	290 Â°C	554 Â°F	ASTM D648
Glass Transition Temp, Tg	85.0 Â°C	185 Â°F	
Flammability, UL94	V-0	V-0	

Processing Properties	Metric	English	Comments
Feed Temperature	50.0 - 90.0 Â°C	122 - 194 Â°F	Hopper Bottom Temp for Mechanical and Structural Standard Molding
	50.0 - 90.0 Â°C	122 - 194 Â°F	Hopper Bottom for Electronic and Electric 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
	325 - 340 Â°C	617 - 644 Â°F	C3 Cylinder Temp for Mechanical and Structural Standard Molding
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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