Mitsui Arlen[™] C215 15% Glass Fiber-Reinforced Modified Nylon 6T (DAM)

Category : Polymer , Thermoplastic , Nylon

Material Notes:

ARLEN[™] is a heat resistant, modified polyamide 6T developed by Mitsui Chemicals, Inc. With a high melting point (320°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-C215-15-Glass-Fiber-Reinforced-Modified-Nylon-6T-DAM.php

Physical Properties	Metric	English	Comments	
Density	1.30 g/cc	0.0470 lb/in³	ASTM D792	
Filler Content	15 %	15 %		
Water Absorption	0.4 %	0.4 %		
water Absorption	@Thickness 2.00 mm	@Thickness 0.0787 in	24 hours in 23°C water; ASTM D570	
	3.8 %	3.8 %	24 hours in 100°C water; ASTM D570	
	@Thickness 2.00 mm	@Thickness 0.0787 in	24110015111100 C Water, ASTM 2510	
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	ASTM D955	
Linear Moru Shirinkaye, Flow	@Thickness 2.00 mm	@Thickness 0.0787 in	A91M D200	
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	Vertical Direction; ASTM D955	
	@Thickness 2.00 mm	@Thickness 0.0787 in	ventical Direction, ASTM D955	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	105	105	ASTM D785
Tensile Strength at Break	110 MPa	16000 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	Measured between the chucks; ASTM D638
Flexural Strength	180 MPa	26100 psi	ASTM D790
Flexural Modulus	6.00 GPa	870 ksi	ASTM D790
Izod Impact, Notched	0.500 J/cm	0.937 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
	55.0 µm/m-°C	30.6 µin/in-°F	
CTE, linear			Vertical Direction; ASTM D696

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Thermal Properties	@Temperature 20.0 °C Metric	@Temperature 68.0 °F English	Comments
CTE, linear, Parallel to Flow	34.0 μm/m-°C	18.9 µin/in-°F	ASTM D696
ore, mean, randier or now	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	310 °C	590 °F	
Deflection Temperature at 1.8 MPa (264 psi)	295 °C	563 °F	ASTM D648
Glass Transition Temp, Tg	85.0 °C	185 °F	
Flammability, UL94	НВ	НВ	

Electrical Properties	Metric	English	Comments	
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257	
Dielectric Constant	4.2	4.2	ASTM D150	
Dielectric Constant	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	ASTMUTSU	
Dielectric Strength	25.0 kV/mm	635 kV/in	ASTM D149	
Dissinction Faster	0.020	0.020	ASTM D150	
Dissipation Factor	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	ASTMDTOU	

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



Processing Properties Mole induperature	Metric 90.0 ~ 140 °C	English 194 - 284 "F	Comments ic and Electric Standard Molding
	90.0 - 140 °C	194 - 284 °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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