ARLEN™ C240N

Polyamide 6T

Mitsui Chemicals America, Inc.

Message:

ARLEN™C240N is a polyamide 6T (nylon 6T) material, which contains a 40% glass fiber reinforced material. This product is available in North America.
ARLEN™The main features of C240N are:
flame retardant/rated flame
Flame Retardant
ARLEN™The typical application areas of C240N are: electrical/electronic applications

General Information				
UL YellowCard	E52579-242916			
Filler / Reinforcement	Glass fiber reinforced material, 40% filler by weight			
Features	Flame retardancy			
Uses	Electrical/Electronic Applications			
Forms	Particle			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Specific Gravity	1.75	--	g/cm³	ASTM D792
Molding Shrinkage				ASTM D955
Flow: 2.00mm	0.30	--	%	ASTM D955
Transverse flow: 2.00mm	0.70	--	%	ASTM D955
Water Absorption				ASTM D570
23°C, 24 hr	0.20	--	%	ASTM D570
100°C, 24 hr	2.8	--	%	ASTM D570
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	110	--		ASTM D785
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Strength	180	150	MPa	ASTM D638
Tensile Elongation (Break)	3.0	3.0	%	ASTM D638
Flexural Modulus	13000	9000	MPa	ASTM D790
Flexural Strength	280	240	MPa	ASTM D790
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Notched Izod Impact	75	80	J/m	ASTM D256
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	295	--	°C	ASTM D648
Glass Transition Temperature	85.0	--	°C	DSC
Melting Temperature	310	--	°C	
Linear thermal expansion coefficient				ASTM D696

Flow	2.0E-5	--	cm/cm/°C	ASTM D696
Lateral	4.5E-5	--	cm/cm/°C	ASTM D696
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+15	--	ohms·cm	ASTM D257
Dielectric Strength	22	--	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	4.00	--		ASTM D150
Dissipation Factor (1 MHz)	0.011	--		ASTM D150
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating	V-0	--		UL 94
Injection	Dry	Unit		
Drying Temperature	110		°C	
Drying Time	2.0 - 6.0		hr	
Hopper Temperature	50 - 90		°C	
Rear Temperature	300 - 325		°C	
Middle Temperature	315 - 335		°C	
Front Temperature	320 - 335		°C	
Nozzle Temperature	315 - 335		°C	
Mold Temperature	90 - 140		°C	
Injection Rate	Moderate			
Screw Speed	150		rpm	

Injection instructions

Injection Pressure: Medium Pressure

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