ARLEN™ E440NK

Polyamide 6T

Mitsui Chemicals, Inc.

Message:

ARLEN™ E440NK by Mitsui Chemicals is a modified polyamide 6T reinforced with 40% glass fiber. Possesses high dimensional stability, high melting point, high rigidity and minimum water absorption. Exhibits good chemical and heat resistance. Is suitable for processing by injection molding. ARLEN™ E440NK is recommended for electrical & electronic parts including connectors, jacks, switches and power supply terminals. Complies with UL 94 V-0 flame rating. Features:

High dimensional stability

High melting point

High rigidity

Minimum water absorption

Good chemical and heat resistance

Flame retardant

Applications:

Electrical and electronic parts including: connectors, jacks, switches, and power supply terminals.

General Information				
Filler / Reinforcement	Glass fiber reinforced material, 40% filler by weight			
Additive	Flame retardancy			
Features	Good Heat Resistance			
	High Dimensional Stability			
	Rigidity, high			
	Good chemical resistance			
	Low or no water absorption			
	Flame retardancy			
Uses	Electrical/Electronic Applications			
	Switch			
	Connector			
Processing Method	Injection molding			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	1.75	g/cm³	ASTM D792	
Molding Shrinkage			ASTM D955	
Flow	0.20	%	ASTM D955	
Transverse flow	0.60	%	ASTM D955	
Water Absorption (23°C, 24 hr, 65%r.h)	1.4	%	ASTM D570	
Hardness	Nominal Value	Unit	Test Method	
Rockwell Hardness (M-Scale)	100		ASTM D785	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Strength	190	МРа	ASTM D638	
Tensile Elongation (Break)	3.0	%	ASTM D638	
Flexural Modulus	17000	MPa	ASTM D790	

Flexural Strength	280	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	100	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8			
MPa, Unannealed)	300	°C	ASTM D648
Glass Transition Temperature	95.0	°C	
Melting Temperature	320	°C	
Linear thermal expansion coefficient			ASTM E831
Flow	1.8E-5	cm/cm/°C	ASTM E831
Lateral	6.9E-5	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength	18	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	4.10		ASTM D150
Dissipation Factor (1 MHz)	0.011		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94

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