

ARKPA6150E

30% glass-fibre Reinforced Materials -Polyamide 6

Description

AR0720K is a 30% glass-fibre Reinforced nylon 6 heat stabilized

Basic Information			
Filler / Reinforcement material	Glass fiber reinforcement, 30% filler by weight		
Additives	Heat stabilizer		
Features	High gloss Solvent resistance Good molding/forming properties Good electrical properties Good chemical resistance Good wear resistance Good weather resistance Fuel resistance Heat resistance		
Type	Pellets		
Processing Methods	Injection Molding		
Physical Properties	Rated Value	Unit	Test method
Density	1.36	g/cm ³	ASTM D792, ISO 1183
Shrinkage (Flow, 1.6 mm)	0.30- 0.50	%	ASTM D955
Water Absorption			
24 hr	2.4	%	ASTM D570
23°C, 24 hr	2.4	%	ISO 62
Hardness	Rated Value	Unit	Test method
Rockwell R-Scale	120		ASTM D785
Mechanical Properties	Rated Value	Unit	Test method
Tensile Strength	147	MPa	ISO 527-2
Tensile Elongation	3.0	%	ISO 527-2
Flexural Modulus	9120	MPa	ISO 178
Flexural Strength	225	MPa	ISO 178
Thermal Properties	Rated Value	Unit	Test method
Heat Distortion Temp (1.8 MPa, unannealed)	210	°C	ASTM D648, ISO 75-2/A
Melting Point	220	°C	DSC
CLTE (Flow):	3.0E-5	cm/cm/°C	ASTM D696
Electrical Properties	Rated Value	Unit	Test method
Volume Resistivity	2.0E+15	ohms-cm	IEC 60093
Dielectric Strength (2 mm)	26	kV/mm	ASTM D149, IEC 60243-1
Arc Resistance	135	sec	ASTM D495
Flammability	Rated Value	Unit	Test method
UL Flame-retardant rating (3.20 mm)	HB		UL 94
Additional Information			
Notched Izod Impact Strength, ISO 180/1: 100 J/mArc Resistance, ASTM D495: 130 to 140 secDielectric Strength, ISO 243: 26 kV/mmThe value listed as Volume Resistance ICE 60093, was tested in accordance with IEC 167.			