

ARKPC-ABS280R

Polycarbonate + ABS

Product Description:

ARKPC-ABS280R is a flame retardant PC/ABS alloy with a UL94 rating tested to V0 at 1.5mm. Typical applications include electrical enclosures and safety equipment.

Basic Information			
Characteristic	Flame Retardancy		
Applications	Safety Equipment Electrical/ Electronic Applications		
Form	Pellet		
Processing Method	Injection Molding		
Physical Properties	Rated Value	Unit	Test Method
Density	1.18	g/cm ³	ISO 1183
MFR (220°C/5.0 kg)	28	g/10 min	ISO 1133
Shrinkage Rate	0.40 to 0.70	%	ISO 294-4
Water Absorption Rate			ISO 62
Saturation, 23°C	0.60	%	ISO 62
Balance, 23°C, 50% RH	0.22	%	ISO 62
Mechanical	Rated Value	Unit	Test Method
Tensile Modulus	2700	MPa	ISO 527-2/1
Tensile Stress At Yield	45.0	MPa	ISO 527-2/50
Tensile strain			
Yield Point	4.1	%	ISO 527-2/50
Fracture	60	%	ISO 527-2
Flexural Stress	90.0	MPa	ISO 178
Impact Properties	Rated Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	15	kJ/m ²	ISO 179/1eA
23°C	50	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C) Unfracture			ISO 179/1eU
Izod Notched Impact Strength (23°C)	45	kJ/m ²	ISO 180/1A
Thermal	Rated Value	Unit	Test Method
Heat Distortion Temp			
0.45 MPa, Unannealed	103	°C	ISO 75-2/Be
1.8 MPa, Unannealed	90.0	°C	ISO 75-2/Ae
Vicat Softening Temp	112	°C	ISO 306/B50
Coefficient of Linear Expansion(fluidity)	8.0E-5	cm/cm/°C	ISO 11359-2
Flammability	Rated Value	Test Method	
UL Flammability Rating		UL 94	
1.50 mm	V-0	UL 94	
3.20 mm	V-0	UL 94	
Injection	Rated Value	Unit	
Drying Temp	90.0	°C	
Drying Time	2.0 to 4.0	hr	
Processing(Melt) Temp	250	°C	
Mold Temp	60.0	°C	
Injection Velocity	60	mm/sec	