

ARKPC-ABS270Q

Polycarbonate + ABS

Product Description:

ARKPC-ABS270Q is a PC/ABS alloy with superior heat distortion and impact properties. Typical applications include automotive interior and safety equipment housings. Honda HES D2501 approved.

Basic Information			
Characteristic	Good impact resistance		
Applications	Safety equipment Automobile interior parts housing		
Institution Rating	FDA Unrated		
Form	Pellet		
Processing Method	Injection Molding		
Physical Properties	Rated Value	Unit	Test Method
Density	1.15	g/cm ³	ISO 1183
MFR (260°C/5.0 kg)	18	g/10 min	ISO 1133
Shrinkage Rate	0.40 to 0.70	%	ISO 294-4
Water Absorption Rate			ISO 62
Saturation, 23°C	0.70	%	ISO 62
Balance, 23°C, 50% RH	0.22	%	ISO 62
Mechanical	Rated Value	Unit	Test Method
Tensile Modulus	2100	MPa	ISO 527-2/1
Tensile Stress			
Yield Point	50.0	MPa	ISO 527-2/50
Yield Point, -40°C	63.0	MPa	ISO 527-2
Yield Point, 80°C	20.0	MPa	ISO 527-2
Tensile strain			
Yield Point	4.3	%	ISO 527-2/50
Yield Point, -20°C	6.3	%	ISO 527-2
Fracture	35	%	ISO 527-2
Flexural Modulus (23°C)	2200	MPa	ISO 178
Flexural Stress	66.0	MPa	ISO 178
Impact Properties	Rated Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	47	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	Unfracture		ISO 179/1eU
Izod Notched Impact Strength (23°C)	48	kJ/m ²	ISO 180/1A
Thermal	Rated Value	Unit	Test Method
Heat Distortion Temp			
0.45 MPa, Unannealed	131	°C	ISO 75-2/B
1.8 MPa, Unannealed	110	°C	ISO 75-2/Ae
Vicat Softening Temp	130	°C	ISO 306/B50
Coefficient of Linear Expansion(fluidity)	9.5E-4	cm/cm/°C	ISO 11359-2
Flammability	Rated Value	Test Method	
UL Flammability Rating		UL 94	
0.800 mm	HB	UL 94	
1.50 mm	HB	UL 94	
Injection	Rated Value	Unit	
Drying Temp	95.0	°C	

Drying Time	2.0 to 4.0	hr
Processing(Melt) Temp	260	°C
Mold Temp	70.0	°C
Injection Velocity	60	mm/sec