

ARKPC230M

Polycarbonate

Product Description :

ARKPC230M is a high flow general purpose polycarbonate grade. Applications include automotive interior covers and lighting.

Basic information			
Characteristic	High liquidity General		
Application	Lighting Applications Automotive interior parts General		
Form	Pellet		
Processing Method	Injection		
Physical Properties	Rated Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183
MFR (300°C/1.2 kg)	22	g/10 min	ISO 1133
Shrinkage Rate	0.40 to 0.70	%	ISO 294-4
Water Absorption Rate			ISO 62
Saturation, 23°C	0.15	%	ISO 62
Balance, 23°C, 50% RH	0.35	%	ISO 62
Mechanical	Rated Value	Unit	Test Method
Tensile Modulus	2350	MPa	ISO 527-2/1
Tensile Stress(Yield Point)	63.0	MPa	ISO 527-2/50
Tensile strain			
Yield Point	6.0	%	ISO 527-2/50
Fracture	120	%	ISO 527-2
Flexural Stress	90.0	MPa	ISO 178
Impact Properties	Rated Value	Unit	Test Method
Charpy Notched Impact Strength	8.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	Unfracture		ISO 179/1eU
Izod Notched Impact Strength (23 °C)	8.0	kJ/m ²	ISO 180/1A
Thermal	Rated Value	Unit	Test Method
Heat Distortion Temp			
0.45 MPa, Unannealed	136	°C	ISO 75-2/Be
1.8 MPa, Unannealed	124	°C	ISO 75-2/Ae
Vicat Softening Temp	144	°C	ISO 306/B50
Coefficient of Linear- liquidity	7.0E-5	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	V-2		UL 94
Injection	Rated Value	Unit	
Drying Temp	110	°C	
Drying Time	2.0 to 4.0	hr	
Processing(Melt) Temp	280	°C	
Mold Temp	90.0	°C	
Injection Velocity	60	mm/sec	