Integra™ PC 5025IR

Polycarbonate

PolySource, LLC

Message:

PC 5025IR polycarbonate resin offers superior mechanical properties, good dimensional stability and high electrical performance, allowing it to be widely used for electrical, electronic, appliance, automotive and optical industries. PC 5025IR is a polycarbonate resin grade which has high low temperature impact strength in combination with superior mechanical and physical property.
CHARACTERISTICS
Superior low temperature impact resistance
Workable under a wide range of temperatures
Good dimensional stability
Good weather resistance
Good flow-ability
High electrical performance
Low moisture absorbency
APPLICATIONS
PC 5025IR resin grade is used for electric and electronic applications, food contact material and etc.
Medium viscosity. Transparent colors only.

General Information			
Features	Good dimensional stability Low hygroscopicity Good electrical performance Good liquidity Low temperature impact resistance Good weather resistance Compliance of Food Exposure Medium viscosity		
Uses	Electrical/Electronic Applications Non-specific food applications Optical applications Home appliance components Application in Automobile Field		
Appearance	Clear/transparent		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.20	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 - 0.70	%	ASTM D955
Water Absorption (Equilibrium)	0.15	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**

Tensile Strength (Yield)	70.3	MPa	ASTM D638
Tensile Elongation (Break)	120	%	ASTM D638
Flexural Modulus	2060	MPa	ASTM D790
Flexural Strength (Yield)	86.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	910	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	135	°C	ASTM D648
CLTE - Flow	5.0E-5 - 7.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	4.0E+16	ohms·cm	ASTM D257
Dielectric Strength	30	kV/mm	ASTM D149
Arc Resistance	120	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.6 mm)	V-2		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	3.0 - 5.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	245 - 270	°C	
Middle Temperature	260 - 285	°C	
Front Temperature	275 - 300	°C	
Nozzle Temperature	275 - 310	°C	
Processing (Melt) Temp	275 - 310	°C	
Mold Temperature	65 - 105	°C	
Back Pressure	0.250 - 0.703	MPa	
Screw Speed	40 - 70	rpm	
Vent Depth	0.020 - 0.079	mm	

Recommended distributors for this material

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WECHAT