TRIREX® 3020IR

Polycarbonate

Samyang Corporation

Message:

TRIREX is the registered trademark of polycarbonate resin manufactured by Samyang Corporation. TRIREX polycarbonate resins offer superior mechanical properties, good dimensional stability and high electrical performance, which allows it to be widely used for electrical, electronic, appliance, automotive and optical industries.
TRIREX 3020IR 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
Good flow-ability
Workable under a wide range of temperatures (-100°C ~ 135°C)
High electrical performance
Good dimensional stability
Low moisture absorbency
Good weather resistance
APPLICATIONS
TRIREX 3020IR resin grade is used for electric and electronic applications, food contact materials and etc.
Low viscosity. Transparent colors only.

General Information			
UL YellowCard	E121254-220598	E257054-521406	E366374-101723899
Features	Food Contact Acceptable Good Dimensional Stability Good Electrical Properties Good Flow Good Weather Resistance Low Moisture Absorption Low Temperature Impact Resistance Low Viscosity		
Uses	Appliances Automotive Applications Electrical/Electronic Applications Non-specific Food Applications Optical Applications		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Injection Molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	23	g/10 min	ASTM D1238

Molding Shrinkage - Flow (3.00 mm)	0.50 to 0.70	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.15	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	67.0	MPa	ASTM D638
Tensile Elongation (Break)	130	%	ASTM D638
Flexural Modulus	2250	MPa	ASTM D790
Flexural Strength (Yield)	92.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	790	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	133	°C	ASTM D648
CLTE - Flow	5.0E-5 to 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 (1.59 mm)	V-2		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	3.0 to 5.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	235 to 260	°C	
Middle Temperature	250 to 275	°C	
Front Temperature	265 to 290	°C	
Nozzle Temperature	265 to 300	°C	
Processing (Melt) Temp	265 to 300	°C	
Mold Temperature	65.0 to 105	°C	
Back Pressure	0.250 to 0.700	MPa	
Screw Speed	40 to 70	rpm	
Vent Depth	0.020 to 0.080	mm	

Recommended distributors for this material

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WECHAT