TRIREX® 3025IR(F)

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 3025IR(F) 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 3025IR(F) resin grade is used in film and sheets.
Medium viscosity. Transparent colors only.

General Information	
Features	Good Dimensional Stability Good Electrical Properties Good Flow Good Weather Resistance Low Moisture Absorption Low Temperature Impact Resistance Medium Viscosity
Uses	Appliances Automotive Applications Electrical/Electronic Applications Film Optical Applications Sheet
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)	7.5	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)	70.0	MPa	ASTM D638
Tensile Elongation (Break)	140	%	ASTM D638
Flexural Modulus	2250	MPa	ASTM D790
Flexural Strength (Yield)	91.0	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm)	930	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	134	°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	245 to 270	°C	
Middle Temperature	260 to 285	°C	
Front Temperature	275 to 300	°C	
Nozzle Temperature	275 to 310	°C	
Processing (Melt) Temp	275 to 310	°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