TRIREX® 3027U

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 3027U is a UV stabilized polycarbonate resin grade which has a high melt viscosity and transparency in combination with superior physical properties.
CHARACTERISTICS
High UV stability
Superior impact strength
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 3027U resin grade is used in out-door applications such as electric meter cover, window panes, sing board, wind break, signal lamps, and ship lights etc.

General Information		
UL YellowCard	E121254-220622	E257054-521377
Additive	UV Stabilizer	
Features	Good Dimensional Stability Good Electrical Properties Good UV Resistance Good Weather Resistance High Impact Resistance Low Moisture Absorption	
Uses	Appliances Automotive Applications Electrical/Electronic Applications Lighting Fixtures Optical Applications Outdoor Applications Windows & Doors	
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)	6.0	g/10 min	ASTM D1238

Water Absorption (23°C, 24 hr)	0.15	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	70.6	MPa	ASTM D638
Tensile Elongation (Break)	150	%	ASTM D638
Flexural Modulus	2260	MPa	ASTM D790
Flexural Strength (Yield)	91.7	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)	135	°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
Optical	Nominal Value	Unit	Test Method
Haze	0.40	%	ASTM D1003
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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