TRIREX® 3027U(M1)

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(M1) 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 3027U(M1) resin grade is used for corrugated/multi-wall sheet and profile extrusion . UV stabilized. High viscosity. Transparent colors only.

General Information	
Additive	UV Stabilizer
Features	Good Dimensional Stability
	Good Electrical Properties
	Good Flow
	Good Weather Resistance
	High Viscosity
	Low Moisture Absorption
	Low Temperature Impact Resistance
Uses	Appliances
	Automotive Applications
	Electrical/Electronic Applications
	Optical Applications
Appearance	Clear/Transparent
Processing Method	Profile Extrusion
	Sheet Extrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	2.0	g/10 min	ASTM D1238
Water Absorption (24 hr)	0.15	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	69.6	MPa	ASTM D638

Tensile Elongation (Break)	100	%	ASTM D638
Flexural Modulus	2060	MPa	ASTM D790
Flexural Strength (Yield)	90.2	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm)	830	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	132	°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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