

# TRIEX® 3027U(02)

Polycarbonate  
Samyang Corporation

## Message:

TRIEX is the registered trademark of polycarbonate resin manufactured by Samyang Corporation. TRIEX 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. TRIEX 3027U(02) 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:

TRIEX 3027U(02) resin grade is used for Injection molding products. 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	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	6.0	g/10 min	ASTM D1238
Water Absorption (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	

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