

TRIEX® 3027IR

Polycarbonate
Samyang Corporation

Message:

TRIEX® 3027IR is a Polycarbonate (PC) product. It can be processed by blow molding, extrusion, or injection molding and is available in Asia Pacific, Europe, or North America.
Characteristics include:
Flame Rated
Good Mold Release
Medium Viscosity

General Information		
UL YellowCard	E121254-220622	E257054-521377
Features	Good Mold Release	
	Medium Viscosity	
Forms	Pellets	
Processing Method	Blow Molding	
	Extrusion	
	Injection Molding	

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	4.5	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)	70.6	MPa	ASTM D638
Tensile Elongation (Break)	140	%	ASTM D638
Flexural Modulus	2260	MPa	ASTM D790
Flexural Strength (Yield)	89.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	950	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	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
Back Pressure	0.250 to 0.700	MPa
Screw Speed	40 to 70	rpm
Vent Depth	0.020 to 0.80	mm

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