



TRIEX® 3030PJ

Samyang Corporation - Polycarbonate

Tuesday, November 5, 2019

General Information

Product Description

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 3030PJ is a polycarbonate resin grade which has high low temperature impact strength in combination with superior mechanical and physical property.

Characteristics:

- Granule Type
- 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 3030PJ resin grade is designed for Compounding. High viscosity. Transparent colors only.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Additive	• UV Stabilizer		
Features	• Good Dimensional Stability	• Good Weather Resistance	• Low Temperature Impact Resistance
	• Good Electrical Properties	• High Viscosity	
	• Good Flow	• Low Moisture Absorption	
Uses	• Appliances	• Electrical/Electronic Applications	
	• Automotive Applications	• Optical Applications	
Appearance	• Clear/Transparent		
Forms	• Granules		
Processing Method	• Compounding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.20		ASTM D792
Melt Mass-Flow Rate (300°C/1.2 kg)	2.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.118 in)	5.0E-3 to 7.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.15	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	10400	psi	ASTM D638
Tensile Elongation (Break)	150	%	ASTM D638
Flexural Modulus	324000	psi	ASTM D790
Flexural Strength (Yield)	12900	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	18	ft-lb/in	ASTM D256

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Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 264 psi, Unannealed	275	°F	ASTM D648
CLTE - Flow	2.8E-5 to 3.9E-5	in/in/°F	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	4.0E+16	ohms·cm	ASTM D257
Dielectric Strength	760	V/mil	ASTM D149
Arc Resistance	120	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	V-2		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	248	°F
Drying Time	3.0 to 5.0	hr
Suggested Max Moisture	< 0.020	%
Rear Temperature	473 to 518	°F
Middle Temperature	500 to 545	°F
Front Temperature	527 to 572	°F
Nozzle Temperature	527 to 590	°F
Processing (Melt) Temp	527 to 590	°F
Mold Temperature	149 to 221	°F
Back Pressure	36.3 to 102	psi
Screw Speed	40 to 70	rpm
Vent Depth	7.9E-4 to 3.1E-3	in

Notes

¹ Typical properties: these are not to be construed as specifications.