

TRIEX® Compound SO4-3025UPNV

Samyang Corporation - Polycarbonate

General Information

Product Description

Si-PC (Siloxane PC) is as polycarbonate-polysiloxane copolymer, having excellent low temperature ductility, impact toughness and chemical resistance.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Uses	• Automotive Exterior Parts	• Electrical/Electronic Applications	• Office Automation Equipment
Processing Method	• Injection Molding		

 Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.18		ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	8.0	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, 73°F)	0.15	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	8250	psi	ASTM D638
Tensile Elongation (Yield)	130	%	ASTM D638
Flexural Modulus	299000	psi	ASTM D790
Flexural Strength (Yield)	11100	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	15	ft-lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness	128		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	257	°F	ASTM D648
CLTE - Flow (41 to 45°F)	2.8E-6 to 3.9E-6	in/in/°F	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength	760	V/mil	ASTM D149
Dielectric Constant	2.85		ASTM D150
Dissipation Factor	9.2E-3		ASTM D150
Arc Resistance	120	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.030 in		HB	
0.06 in		V-0	

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	212 to 230	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	500 to 536	°F
Middle Temperature	500 to 536	°F
Front Temperature	518 to 554	°F
Nozzle Temperature	536 to 572	°F



Processing (Melt) Temp	536 to 572 °F
Mold Temperature	140 to 176 °F
Injection Pressure	10200 to 20300 psi
Holding Pressure	5080 to 8700 psi
Back Pressure	58.0 to 87.0 psi
Screw Speed	50 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.

