TRIREX® 3025FD

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.
Agency Ratings : USP Class VI
TRIREX 3025FD is a polycarbonate resin grade which has high impact strength in combination with superior mechanical and physical property.
APPLICATIONS
TRIREX 3025FD resin grade is used for Medical devices, food contact materials and etc.
Medium viscosity. Transparent colors only.

General Information			
UL YellowCard	E257054-521377		
Features	Good dimensional stability Low hygroscopicity Impact resistance, high Good electrical performance Good liquidity Low temperature impact resistance Good weather resistance Compliance of Food Exposure Medium viscosity		
Uses	Electrical/Electronic Applications Electrical appliances Non-specific food applications Optical applications Application in Automobile Field Medical devices		
Agency Ratings	USP Class VI		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.20	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	0.50 - 0.70	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.15	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	69.6	MPa	ASTM D638

Tensile Elongation (Break)	120	%	ASTM D638
Flexural Modulus	2060	MPa	ASTM D790
Flexural Strength (Yield)	86.3	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm)	880	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 - 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 (1.6 mm)	V-2		UL 94
Injection	**Nominal Value**	**Unit**	
Drying Temperature	120	°C	
Drying Time	3.0 - 5.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	245 - 270	°C	
Middle Temperature	260 - 285	°C	
Front Temperature	275 - 300	°C	
Nozzle Temperature	275 - 310	°C	
Processing (Melt) Temp	275 - 310	°C	
Mold Temperature	65 - 105	°C	
Back Pressure	0.250 - 0.700	MPa	
Screw Speed	40 - 70	rpm	
Vent Depth	0.020 - 0.080	mm	

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China


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