TRISTAR® PC-10R-(V)

Polycarbonate

Polymer Technology and Services, LLC

Message:

TRISTAR®PC-10R-(V) is a polycarbonate (PC) product. It can be processed by injection molding and is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. TRISTAR®The application fields of PC-10R-(V) include electrical/electronic applications and wire and cable.
Features include:
flame retardant/rated flame
Comply with REACH standard
ROHS certification
Good UV resistance
mold release agent

General Information			
UL YellowCard	E155285-223925	E155285-102293244	
Additive	demoulding UV stabilizer		
Features	Good UV resistance Good demoulding performance		
Uses	Electrical/Electronic Applications Communication Equipment		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS compliance		
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
Water Absorption (23°C, 24 hr)	0.15	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield, 3.17 mm)	62.1	MPa	ASTM D638
Tensile Elongation (Break, 3.17 mm)	100	%	ASTM D1708
Flexural Modulus (3.17 mm)	2210	MPa	ASTM D790
Flexural Strength (Yield, 3.17 mm)	89.6	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.17 mm)	640	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**

Deflection Temperature Under Load			
1.8 MPa, not annealed	127	°C	ASTM D648
1.8 MPa, not annealed	137	°C	ISO 75-2/A
Linear thermal expansion coefficient			ASTM E831
Flow: -40 to 95°C	7.0E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 95°C	6.8E-5	cm/cm/°C	ASTM E831
RTI Elec	125	°C	UL 746
RTI Imp	115	°C	UL 746
RTI	125	°C	UL 746
Electrical	**Nominal Value**	**Unit**	**Test Method**
Arc Resistance	PLC 6		ASTM D495
Comparative Tracking Index (CTI)	PLC 2		UL 746
High Amp Arc Ignition (HAI)			UL 746
1.50 mm	PLC 0		UL 746
3.00 mm	PLC 1		UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 3		UL 746
Hot-wire Ignition (HWI)			UL 746
1.50 mm	PLC 3		UL 746
3.00 mm	PLC 2		UL 746
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.50 mm)	V-2		UL 94
Glow Wire Flammability Index	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature	775	°C	IEC 60695-2-13
Injection	**Nominal Value**	**Unit**	
Drying Temperature	121	°C	
Drying Time	3.0 - 4.0	hr	
Drying Time, Maximum	48	hr	
Suggested Shot Size	40 - 60	%	
Rear Temperature	266 - 277	°C	
Middle Temperature	271 - 282	°C	
Front Temperature	282 - 299	°C	
Nozzle Temperature	277 - 304	°C	
Processing (Melt) Temp	288 - 316	°C	
Mold Temperature	71.1 - 93.3	°C	
Injection Pressure	82.7 - 124	MPa	
Back Pressure	0.345 - 1.38	MPa	
Screw Speed	40 - 70	rpm	
Clamp Tonnage	2.8 - 6.9	kN/cm^2	

Injection instructions
Injection Speed - Edge Gate: Slow to MediumInjection Speed - Tab Gate: Medium to FastInjection Speed - Tunnel Gate: Fast

infringement occurs, please contact us immediately.

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