EMERGE™ PC 8731

Advanced Resin

Trinseo

Message:

EMERGE PC 8731 Advanced Resin is an ignition-resistant, 10% glass reinforced, and UV resistant polycarbonate resin. EMERGE PC 8731 is rated as f1 resin by Underwriters Laboratory. This resin contains no bromine, chlorine, or phosphate additives. It is a medium flow PC resin with a mold release system, intended for injection molding applications.
Applications
Information technology equipment
Electrical parts
Other structural/internal parts

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Additive	Mold Release		
Features	Bromine Free Chlorine Free Flame Retardant Good UV Resistance Medium Flow		
Uses	Electrical/Electronic Applications Structural Parts		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.28	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	13	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.60	%	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (3.20 mm, Injection Molded)	4000	MPa	ASTM D638
Tensile Strength (Break, 3.20 mm, Injection Molded)	60.0	MPa	ASTM D638
Tensile Elongation (Break, 3.20 mm, Injection Molded)	4.0	%	ASTM D638
Flexural Modulus (3.20 mm, Injection Molded)	3300	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	110	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648

0.45 MPa, Unannealed	141	°C
1.8 MPa, Unannealed	133	°C
1.8 MPa, Annealed	139	°C

Flammability	Nominal Value	Test Method
Flame Rating [1]		UL 94
1.50 mm	V-0	
3.00 mm	5VA	

Injection	Nominal Value	Unit
Drying Temperature	120	°C
Drying Time	3.0 to 4.0	hr
Processing (Melt) Temp	290 to 315	°C
Mold Temperature	80.0 to 115	°C

NOTE	
1.	This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.

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

WECHAT