EMERGE™ PC 8900

Advanced Resin

Trinseo

Message:

EMERGE™ PC 8900 is translucent, ignition-resistant Polycarbonate resin. This resin halogen free flame retardant and is intended to comply with global environmental standards. It is an easy processing PC resin suitable for use in IR PC film or sheet extrusion. It has UL 94 flammability rating of 0.5 mm V-0.

General Information			
UL YellowCard	E206114-100167435		
Features	Flame Retardant Good Processability Halogen Free		
Uses	Film Sheet		
Appearance	Translucent		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.21	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	13	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (3.20 mm, Injection Molded)	2020	MPa	ASTM D638
Tensile Strength (Yield, 3.20 mm, Injection Molded)	67.0	MPa	ASTM D638
Tensile Elongation (Yield, 3.20 mm, Injection Molded)	110	%	ASTM D638
Flexural Modulus (3.20 mm, Injection Molded)	2920	MPa	ASTM D790
Flexural Strength (Yield, 3.20 mm, Injection Molded)	103	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	98.9	°C	
1.8 MPa, Unannealed	86.1	°C	
Vicat Softening Temperature	114	°C	ASTM D1525 [1]

CLTE - Flow	6.5E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	2.1E+17	ohms·cm	ASTM D257
Dielectric Strength	12	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating [2] (0.500 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	260 to 290	°C	
NOTE			
1.	Rate B (120°C/h), Loading 1 (10 N)		
2.	This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.		

Recommended distributors for this material

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