EMERGE™ PC 8130-10

Advanced Resin

Trinseo

Message:

EMERGE™ PC 8130 Advanced Resin is an ignition-resistant polycarbonate resin with improved UV stability. It is designed for thin-wall applications and has a UL94 V-0 rating at 1.0 mm. EMERGE PC 8130 is also f1 rated according to UL 746C. This resin does not contain chlorine or bromine additives.
Main Characteristics:
Ignition resistant
UV resistant
Applications:
Powered Device Housings
Information technology equipment
Electrical parts

General Information			
Features	Chlorine Free		
	Good UV resistance		
	Good liquidity		
	Bromine-free		
	Flame retardancy		
Uses	Thin wall parts		
	Electrical/Electronic Applications		
	Electrical housing		
	Shell		
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	0.50 - 0.70	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.15	%	ASTM D570
Outdoor Suitability	f1		UL 746C
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2380	MPa	ASTM D638
Tensile Strength			
Yield	61.4	MPa	ASTM D638
Yield	61.0	MPa	ISO 527-2/50
Fracture	58.6	MPa	ASTM D638
Fracture	59.0	MPa	ISO 527-2/50
Tensile Elongation			ASTM D638
Yield	6.0	%	ASTM D638

Fracture	120	%	ASTM D638
Flexural Modulus	2330	MPa	ASTM D790
Flexural Strength	97.9	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C)	690	J/m	ASTM D256
Instrumented Dart Impact	62.1	J	ASTM D3763
Tensile Impact Strength	630	kJ/m^2	ASTM D1822
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	137	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	127	°C	ASTM D648
Vicat Softening Temperature	151	°C	ASTM D1525
CLTE - Flow	6.5E-5	cm/cm/°C	ASTM D696
RTI Elec	130	°C	UL 746
RTI Imp	115	°C	UL 746
RTI	130	°C	UL 746
Electrical	**Nominal Value**		**Test Method**
Arc Resistance	PLC 7		ASTM D495
Comparative Tracking Index (CTI)	PLC 2		UL 746
High Amp Arc Ignition (HAI)			UL 746
0.9 mm	PLC 2		UL 746
1.0 to 3.0mm	PLC 1		UL 746
High Voltage Arc Resistance to Ignition (HVAR)	PLC 1		UL 746
Hot-wire Ignition (HWI) (0.9 to 3.0mm)	PLC 2		UL 746
Flammability	**Nominal Value**		**Test Method**
Flame Rating			Internal method
0.9 mm, all [1]	V-1		Internal method
0.9 mm, wt, black [2]	V-0		Internal method
1.0 mm, all [3]	V-0		Internal method
2.0 mm, all [4]	5VB		Internal method
3.0 mm, all [5]	5VA		Internal method
Injection	**Nominal Value**	**Unit**	
Drying Temperature	121	°C	
Drying Time	3.0 - 4.0	hr	
Processing (Melt) Temp	288 - 302	°C	
NOTE			
1.	This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.		

2.	This rating is not intended to reflect the danger caused by this or any other material under actual fire conditions.
3.	This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.
4.	This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.
5.	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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