



EMERGE™ PC 8130-10

Trinseo - Advanced Resin

Tuesday, November 5, 2019

General Information

Product Description

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

Material Status	• Commercial: Active
Availability	• North America
Features	• Bromine Free • Flame Retardant • Chlorine Free • Good Flow • UV Resistant
Uses	• Electrical Housing • Housings • Electrical/Electronic Applications • Thin-walled Parts
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.20		ASTM D792
Melt Mass-Flow Rate (300°C/1.2 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow	5.0E-3 to 7.0E-3	in/in	ASTM D955
Water Absorption (24 hr, 73°F)	0.15	%	ASTM D570
Outdoor Suitability	f1		UL 746C
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	345000	psi	ASTM D638
Tensile Strength (Yield)	8910	psi	ASTM D638
Tensile Stress (Yield)	8850	psi	ISO 527-2/50
Tensile Strength (Break)	8500	psi	ASTM D638
Tensile Stress (Break)	8560	psi	ISO 527-2/50
Tensile Elongation (Yield)	6.0	%	ASTM D638
Tensile Elongation (Break)	120	%	ASTM D638
Flexural Modulus	338000	psi	ASTM D790
Flexural Strength	14200	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	13	ft-lb/in	ASTM D256
Instrumented Dart Impact	550	in-lb	ASTM D3763
Tensile Impact Strength	300	ft-lb/in ²	ASTM D1822

UL and the UL logo are trademarks of UL LLC © 2019. All Rights Reserved.

The information presented here was acquired by UL from the producer of the product or material or original information provider. However, UL assumes no responsibility or liability for the accuracy of the information contained on this website and strongly encourages that upon final product or material selection information is validated with the manufacturer. This website provides links to other websites owned by third parties. The content of such third party sites is not within our control, and we cannot and will not take responsibility for the information or content.

EMERGE™ PC 8130-10

Trinseo - Advanced Resin

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 66 psi, Unannealed, 0.252 in	279	°F	ASTM D648
Deflection Temperature Under Load 264 psi, Unannealed, 0.252 in	261	°F	ASTM D648
Vicat Softening Temperature	304	°F	ASTM D1525
CLTE - Flow	3.6E-5	in/in/°F	ASTM D696
RTI Elec	266	°F	UL 746
RTI Imp	239	°F	UL 746
RTI Str	266	°F	UL 746
Electrical	Nominal Value	Unit	Test Method
Arc Resistance	PLC 7		ASTM D495
Comparative Tracking Index (CTI)	PLC 2		UL 746
High Amp Arc Ignition (HAI)			UL 746
0.03 in	PLC 2		
0.04 to 0.12 in	PLC 1		
High Voltage Arc Resistance to Ignition (HVAR)	PLC 1		UL 746
Hot-wire Ignition (HWI) (0.03 to 0.12 in)	PLC 2		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating ²			Internal Method
0.03 in, all	V-1		
0.03 in, wt, black	V-0		
0.04 in, all	V-0		
0.08 in, all	5VB		
0.12 in, all	5VA		

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	250	°F
Drying Time	3.0 to 4.0	hr
Processing (Melt) Temp	550 to 575	°F

Notes

¹ Typical properties: these are not to be construed as specifications.

² This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.