

EMERGE™ PC/ABS 7530

Advanced Resin

Overview

EMERGE™ PC/ABS 7530 advanced resin is a high flow, ignition-resistant PC/ABS blend that contains no chlorine or bromine flame retardants. It has good property balance of flow ability, impact and heat stability. It is suitable for the injection molding for large, thin-wall and intricate parts. It can be used in a wide variety of applications in the Information Technology Equipment and Consumer Electronics Industries

Applications:

- Notebook & Desktop Computer Enclosures
- TV & monitor enclosures
- Power Adaptors and Chargers

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.17 g/cm ³	1.17 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
230°C/3.8 kg	16 g/10 min	16 g/10 min	
260°C/5.0 kg	70 g/10 min	70 g/10 min	
Molding Shrinkage - Flow	4.0E-3 to 6.0E-3 in/in	0.40 to 0.60 %	ASTM D955
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength			ASTM D638
Yield, 0.126 in (3.20 mm), Injection Molded	9000 psi	62.1 MPa	
Break, 0.126 in (3.20 mm), Injection Molded	6600 psi	45.5 MPa	
Tensile Elongation			ASTM D638
Yield, 0.126 in (3.20 mm), Injection Molded	4.0 %	4.0 %	
Break, 0.126 in (3.20 mm), Injection Molded	60 %	60 %	
Flexural Modulus			ASTM D790
0.126 in (3.20 mm), Injection Molded	410000 psi	2830 MPa	
Flexural Strength			ASTM D790
0.126 in (3.20 mm), Injection Molded	14200 psi	97.9 MPa	
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			ASTM D256
73°F (23°C), 0.126 in (3.20 mm), Injection Molded	12 ft-lb/in	640 J/m	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness			ASTM D785
R-Scale, 0.126 in (3.20 mm), Injection Molded	120	120	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	203 °F	95.0 °C	
264 psi (1.8 MPa), Unannealed	181 °F	82.8 °C	
Vicat Softening Temperature	227 °F	108 °C	ASTM D1525 ¹
Ball Indentation Temperature	194 °F	90.0 °C	IEC 60335-1

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating ² (0.06 in (1.5 mm))	V-0	V-0	UL 94
Glow Wire Flammability Index ² 0.08 in (2.0 mm)	1760 °F	960 °C	IEC 60695-2-12
Glow Wire Ignition Temperature ² 0.08 in (2.0 mm)	1700 °F	925 °C	IEC 60695-2-13
Oxygen Index ²	29 %	29 %	ASTM D2863

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	175 to 195 °F	79 to 91 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Processing (Melt) Temp	446 to 500 °F	230 to 260 °C
Mold Temperature	140 to 195 °F	60 to 91 °C

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

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.



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