EMERGE™ PC/ABS 7530

Advanced Resin

Trinseo

Message:

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

General Information			
UL YellowCard	E206114-100716167		
Features	Bromine Free Chlorine Free Flame Retardant High Flow		
Uses	Electrical/Electronic Applications Housings		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.17	g/cm^3	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
230°C/3.8 kg	16	g/10 min	
260°C/5.0 kg	70	g/10 min	
Molding Shrinkage - Flow	0.40 to 0.60	%	ASTM D955
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale, 3.20 mm, Injection Molded)	120		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield, 3.20 mm, Injection Molded	62.1	MPa	
Break, 3.20 mm, Injection Molded	45.5	MPa	
Tensile Elongation			ASTM D638
Yield, 3.20 mm, Injection Molded	4.0	%	
Break, 3.20 mm, Injection Molded	60	%	
Flexural Modulus (3.20 mm, Injection Molded)	2830	MPa	ASTM D790

Flexural Strength (3.20 mm, Injection Molded)	97.9	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	640	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	95.0	°C	
1.8 MPa, Unannealed	82.8	°C	
Vicat Softening Temperature	108	°C	ASTM D1525 [1]
Ball Indentation Temperature	90.0	°C	IEC 60335-1
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating [2] (1.50 mm)	V-0		UL 94
Glow Wire Flammability Index [3] (2.00 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature [4] (2.00 mm)	925	°C	IEC 60695-2-13
Oxygen Index [5]	29	%	ASTM D2863
Injection	**Nominal Value**	**Unit**	
Drying Temperature	79.4 to 90.6	°C	
Drying Time	3.0 to 4.0	hr	
Processing (Melt) Temp	230 to 260	°C	
Mold Temperature	60.0 to 90.6	°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.
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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