

EMERGE™ PC/ABS 7570EP

Advanced Resin

Trinseo

Message:

EMERGE™ PC/ABS 7570EP Advanced Resin is a high flow, ignition resistant PC/ABS blend that contains no chlorinated or brominated additives. This resin is specifically designed to offer enhanced processing in "heat and cool" moulding applications, delivering optimum filling and packing performance. EMERGE™ PC/ABS 7570EP is suitable for moulding a wide range of parts in the Information Technology Equipment & Consumer Electronics & Electrical devices.

Applications:

LCD TV Enclosures

Monitor and PC Enclosures

Electrical Enclosures

General Information			
UL YellowCard	E213639-100467831		
Features	Bromine Free		
	Chlorine Free		
	Flame Retardant		
	High Flow		
Uses	Electrical/Electronic Applications		
	Housings		
	LCD Applications		
	Television Housings		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm ³	ISO 1183/B
Apparent Density	0.67	g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	48	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	0.39 to 0.43	%	
Flow	0.41 to 0.46	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2740	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield	63.0	MPa	
Break	49.0	MPa	
Tensile Strain			ISO 527-2/50

Yield	3.9	%	
Break	15	%	
Flexural Modulus ¹	2700	MPa	ISO 178
Flexural Stress ²	92.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	9.0	kJ/m ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	79.0	°C	ISO 75-2/A
Vicat Softening Temperature	104	°C	ISO 306/A120
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Electric Strength	35	kV/mm	IEC 60243-1
Dielectric Constant			IEC 60250
100 Hz	3.20		
1 MHz	3.10		
Dissipation Factor			IEC 60250
100 Hz	4.0E-3		
1 MHz	7.0E-3		
Flammability	Nominal Value	Unit	Test Method
Flame Rating ³ (1.60 mm)	V-0		UL 94
Glow Wire Flammability Index ⁴			IEC 60695-2-12
1.00 mm	960	°C	
2.00 mm	960	°C	
3.00 mm	960	°C	
Glow Wire Ignition Temperature ⁵			IEC 60695-2-13
1.00 mm	800	°C	
2.00 mm	800	°C	
3.00 mm	800	°C	
Needle Flame Test ⁶ (1.50 mm)	PASS		IEC 60695-2-2
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 85.0	°C	
Drying Time	3.0 to 4.0	hr	
Processing (Melt) Temp	230 to 280	°C	
Mold Temperature	40.0 to 80.0	°C	
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		
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.
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