

EMERGE™ PC/ABS 7570

Advanced Resin

Trinseo

Message:

EMERGE™ PC/ABS 7570 Advanced Resin is a high flow, ignition-resistant PC/ABS blend that contains no chlorinated or brominated additives. Its superior processing makes it ideal for injection molding of large, thin-wall, or intricate parts. EMERGE PC/ABS 7570 is suitable for use in a wide variety of applications in the Information Technology Equipment & Consumer Electronics industries.

Applications:

LCD TV Enclosures

CRT TV Enclosures

Monitor and PC Enclosures

General Information			
UL YellowCard	E54680-100495230	E206114-100147593	E213639-314388
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)			ISO 1133
230°C/3.8 kg	20	g/10 min	
260°C/5.0 kg	95	g/10 min	
Molding Shrinkage - Flow	0.40 to 0.60	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (4.00 mm, Injection Molded)	2600	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield, 4.00 mm, Injection Molded	60.0	MPa	
Break, 4.00 mm, Injection Molded	47.0	MPa	
Tensile Strain			ISO 527-2/50
Yield, 4.00 mm, Injection Molded	4.0	%	
Break, 4.00 mm, Injection Molded	40	%	

Flexural Modulus ¹ (4.00 mm, Injection Molded)	2700	MPa	ISO 178
Flexural Stress ² (4.00 mm, Injection Molded)	92.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	18	kJ/m ²	ISO 179/1eA
Notched Izod Impact Strength (23°C)	12	kJ/m ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	90.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	80.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	105	°C	ISO 306/A120
--	98.0	°C	ISO 306/B50
Ball Indentation Temperature	95.0	°C	IEC 60335-1
Flammability	Nominal Value	Unit	Test Method
Flame Rating ³			UL 94
1.60 mm, All Colors	V-0		
2.50 mm, Natural plus Color Concentrate	V-0		
Glow Wire Flammability Index ⁴ (2.00 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature ⁵ (2.00 mm)	800	°C	IEC 60695-2-13
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	3.0 to 4.0	hr	
Processing (Melt) Temp	240 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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