EMERGE™ PC/ABS 7770

Advanced Resin

Trinseo

Message:

EMERGE™ PC/ABS 7770 advanced resin is a high flow, ignition-resistant PC/ABS blend that contains no chlorinated or brominated additives. It combines elevated heat performance with the excellent processing characteristics associated with other EMERGE™ PC/ABS Advanced resins, meeting the market trend in Flat TV housing for higher heat, higher flow materials.
Applications:
LCD TV Housings
Plasma TV Housings

General Information			
UL YellowCard	E54680-100581179		
Features	Bromine Free Chlorine Free Flame Retardant Good Processability High Flow		
Uses	LCD Applications Television Housings		
Forms	Pellets		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.20	g/cm³	ISO 1183/B
Melt Mass-Flow Rate (MFR)			ISO 1133
230°C/3.8 kg	20	g/10 min	
260°C/5.0 kg	70	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)	2900	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield, 4.00 mm, Injection Molded	70.0	MPa	
Break, 4.00 mm, Injection Molded	50.0	MPa	
Tensile Strain			ISO 527-2/50
Yield, 4.00 mm, Injection Molded	5.0	%	
Break, 4.00 mm, Injection Molded	25	%	
Flexural Modulus [1] (4.00 mm, Injection Molded)	2900	MPa	ISO 178
Flexural Stress [2] (4.00 mm, Injection Molded)	105	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**

Charpy Notched Impact Strength (23°C, Injection Molded)	7.0	kJ/m²	ISO 179/1eA
Notched Izod Impact Strength [3] (23°C, Injection Molded)	7.0	kJ/m²	ISO 180/A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed	98.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	88.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	113	°C	ISO 306/A120
--	105	°C	ISO 306/B50
Ball Indentation Temperature	98.0	°C	IEC 60335-1
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating [4] (1.60 mm)	V-0		UL 94
Glow Wire Flammability Index [5]			IEC 60695-2-12
1.00 mm	850	°C	
2.00 mm	850	°C	
3.00 mm	850	°C	
Glow Wire Ignition Temperature [6]			IEC 60695-2-13
1.00 mm	775	°C	
2.00 mm	775	°C	
3.00 mm	775	°C	
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.	4 mm		
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.		
6.	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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