

# EMERGE™ PC/ABS 7600

Advanced Resin

Trinseo

Message:

EMERGE™ PC/ABS 7600 is an ignition-resistant PC/ABS blend that contains no chlorine or bromine additives. It combines the superior physical properties of PC & the excellent processability of ABS, resulting in high toughness and high flow. This resin is suitable for use in a wide range of applications. EMERGE PC/ABS 7600 Natural has undergone biocompatibility testing based on ISO 10993 (Parts 5 & 10) and is suitable for use in medical equipment housings.

- Main Characteristics:
- Ignition-Resistant
  - Chlorine and Bromine Free
  - ISO 10993 (Parts 5 & 10)

- Applications:
- Medical equipment housings
  - Information technology equipment
  - Consumer electronics
  - Office and business equipment
  - Retail sales equipment

General Information			
UL YellowCard		E54680-474981	E206114-315764
Features	Biocompatible		
	Bromine Free		
	Chlorine Free		
	Flame Retardant		
	Good Processability		
	Good Toughness		
	High Flow		
Uses	Business Equipment		
	Electrical/Electronic Applications		
	Housings		
	Medical/Healthcare Applications		
Agency Ratings		ISO 10993 3	
Appearance		Natural Color	
Forms		Pellets	
Processing Method		Injection Molding	
Multi-Point Data	Specific Heat vs. Temperature (ASTM D3417)		
	Specific Volume vs Temperature (ISO 11403-2)		
	Thermal Conductivity vs. Temperature (ASTM E1530)		
	Viscosity vs. Shear Rate (ASTM D3835)		
Physical	Nominal Value	Unit	Test Method

Specific Gravity	1.18	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	19	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.60	%	ASTM D955
<b>Hardness</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Rockwell Hardness (R-Scale, 3.20 mm, Injection Molded)	118		ASTM D785
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Modulus (3.20 mm, Injection Molded)	2690	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, 3.20 mm, Injection Molded	55.2	MPa	
Break, 3.20 mm, Injection Molded	44.1	MPa	
Tensile Elongation			ASTM D638
Yield, 3.20 mm, Injection Molded	4.0	%	
Break, 3.20 mm, Injection Molded	80	%	
Flexural Modulus (3.20 mm, Injection Molded)	2830	MPa	ASTM D790
Flexural Strength (3.20 mm, Injection Molded)	88.9	MPa	ASTM D790
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	590	J/m	ASTM D256
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	87.8	°C	
1.8 MPa, Unannealed	77.2	°C	
Vicat Softening Temperature	102	°C	ASTM D1525 <sup>1</sup>
Ball Indentation Temperature	87.2	°C	IEC 60335-1
<b>Flammability</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Flame Rating <sup>2</sup>			UL 94
1.50 mm	V-0		
2.00 mm	5VB		
Glow Wire Flammability Index <sup>3</sup> (2.00 mm)	950	°C	IEC 60695-2-12
Glow Wire Ignition Temperature <sup>4</sup> (2.00 mm)	825	°C	IEC 60695-2-13
Oxygen Index <sup>5</sup>	31	%	ASTM D2863
<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>	
Drying Temperature	79.4	°C	
Drying Time	3.0 to 4.0	hr	
Processing (Melt) Temp	216 to 241	°C	
Melt Temperature (Aim)	221	°C	
Mold Temperature	60.0 to 71.1	°C	
<b>NOTE</b>			
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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