# EMERGE™ PC/ABS 7760

### Advanced Resin

#### Trinseo

#### Message:

EMERGE™ PC/ABS 7760 is an ignition-resistant PC/ABS blend that contains no chlorine or bromine additives. This product provides outstanding toughness and impact strength for extrusion applications. EMERGE™ PC/ABS 7760 is available in custom colors. Main Characteristics: Tested under ISO 10993 (Parts 5 and 10) -RoHS Compliant Applications: Medical equipment housings Consumer electronics Information technology equipment Electrical equipment enclosures

General Information			
UL YellowCard	E54680-102760533	E213639-102813230	
Features	Chlorine Free		
	Impact resistance, good		
	Good toughness		
	Bromine-free		
	Flame retardancy		
Uses	Electrical/Electronic Applications		
	Electrical housing		
	Shell		
	Medical/nursing supplies		
RoHS Compliance	RoHS compliance		
Appearance	Available colors		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
230°C/3.8 kg	3.0	g/10 min	ASTM D1238
260°C/5.0 kg	14	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 - 0.60	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 3.20 mm, Injection Molded)	121		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (3.20 mm, Injection Molded)	2780	MPa	ASTM D638

Tensile Strength			ASTM D638
Yield, 3.20mm, injection molding	67.0	MPa	ASTM D638
Fracture, 3.20mm, injection molding	62.0	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield, 3.20mm, injection molding	5.0	%	ASTM D638
Fracture, 3.20mm, injection molding	71	%	ASTM D638
Flexural Modulus (3.20 mm, Injection Molded)	2560	MPa	ASTM D790
Flexural Strength (3.20 mm, Injection Molded)	104	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20mm, injection molding	130	J/m	ASTM D256
0°C, 3.20mm, injection molding	350	J/m	ASTM D256
23°C, 3.20mm, injection molding	740	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	98.0	°C	ASTM D648
1.8 MPa, not annealed	86.0	°C	ASTM D648
Vicat Softening Temperature			
	114	°C	ASTM D1525 <sup>1</sup>
	104	°C	ASTM D1525 <sup>2</sup>
Linear thermal expansion coefficient			ASTM D696
Flow: -40 to 180°C	7.3E-5	cm/cm/°C	ASTM D696
Horizontal: -40 to 180°C	6.7E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.5 mm <sup>3</sup>	V-0		UL 94
2.0 mm <sup>4</sup>	5VB		UL 94
2.5 mm <sup>5</sup>	5VA		UL 94
Oxygen Index	33	%	ASTM D2863
NOTE			
1.	标准 B (120°C/h), 压 力1 (10N)		
2.	速率 A (50°C/h), 载荷2 (50N)		
3.	This rating is not intended to reflect the danger caused by this or any other material under actual fire conditions.		
4.	This rating is not intended to reflect the danger caused 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.		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

## Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

