TRINSEO™

EMERGE™ PC/ABS 7760
Advanced Resin

Overview

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:
-RoHS Compliant
-Ignition Resistance
-Extrusion

Applications:

- Medical equipment housings
- Consumer electronics
- Information technology equipment
- Electrical equipment enclosures

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	1.19	g/cm³	1.19	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)					ASTM D1238
230°C/3.8 kg	3.0	g/10 min	3.0	g/10 min	
260°C/5.0 kg	14	g/10 min	14	g/10 min	
Molding Shrinkage - Flow	4.0E-3 to 6.0E-3	in/in	0.40 to 0.60	%	ASTM D955
Mechanical	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Tensile Modulus					ASTM D638
0.126 in (3.20 mm), Injection Molded	403000	psi	2780	MPa	
Tensile Strength					ASTM D638
Yield, 0.126 in (3.20 mm), Injection Molded	9720	psi	67.0	MPa	
Break, 0.126 in (3.20 mm), Injection Molded	8990	psi	62.0	MPa	
Tensile Elongation					ASTM D638
Yield, 0.126 in (3.20 mm), Injection Molded	5.0	%	5.0	%	
Break, 0.126 in (3.20 mm), Injection Molded	71	%	71	%	
Flexural Modulus					ASTM D790
0.126 in (3.20 mm), Injection Molded	371000	psi	2560	MPa	
Flexural Strength					ASTM D790
0.126 in (3.20 mm), Injection Molded	15100	psi	104	MPa	
Impact	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Notched Izod Impact					ASTM D256
-22°F (-30°C), 0.126 in (3.20 mm), Injection Molded	2.4	ft·lb/in	130	J/m	
32°F (0°C), 0.126 in (3.20 mm), Injection Molded	6.6	ft·lb/in	350	J/m	
73°F (23°C), 0.126 in (3.20 mm), Injection Molded	14	ft·lb/in	740	J/m	
Hardness	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Rockwell Hardness					ASTM D785
R-Scale, 0.126 in (3.20 mm), Injection Molded	121		121		

Thermal	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Deflection Temperature Under Load					ASTM D648
66 psi (0.45 MPa), Unannealed	208	°F	98.0	°C	
264 psi (1.8 MPa), Unannealed	187	°F	86.0	°C	
Vicat Softening Temperature					
--	219	°F	104	°C	ASTM D1525 [1]
--	237	°F	114	°C	ASTM D1525 [2]
CLTE					ASTM D696
Flow : -40 to 356°F (-40 to 180°C)	4.1E-5	in/in/°F	7.3E-5	cm/cm/°C	
Transverse : -40 to 356°F (-40 to 180°C)	3.7E-5	in/in/°F	6.7E-5	cm/cm/°C	
Flammability	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Flame Rating [3]					UL 94
0.06 in (1.5 mm)	V-0		V-0		
0.08 in (2.0 mm)	5VB		5VB		
0.10 in (2.5 mm)	5VA		5VA		
Oxygen Index	33	%	33	%	ASTM D2863