TRINSEO™

EMERGE™ PC 8600PV
Advanced Resin

Overview

EMERGE™ PC 8600PV advanced resin is ignition-resistant polycarbonate without using halogenated additives. This resin combines good mechanical, thermal, and chemical properties while retaining excellent processability.

Applications:

- Information technology equipment
- Electronics and electrical appliances
- Battery chargers and adaptors enclosures

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	1.20	g/cm³	1.20	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	10	g/10 min	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow	5.0E-3 to 7.0E-3	in/in	0.50 to 0.70	%	ASTM D955
Mechanical	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Tensile Modulus [1]	292000	psi	2020	MPa	ASTM D638
Tensile Strength [2]					ASTM D638
Yield	8700	psi	60.0	MPa	
Break	9140	psi	63.0	MPa	
Tensile Elongation [2]					ASTM D638
Yield	5.0	%	5.0	%	
Break	90	%	90	%	
Flexural Modulus [3]	334000	psi	2300	MPa	ASTM D790
Flexural Strength [3]	13100	psi	90.0	MPa	ASTM D790
Impact	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Notched Izod Impact (73°F (23°C))	14	ft·lb/in	750	J/m	ASTM D256
Thermal	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Deflection Temperature Under Load					ASTM D648
264 psi (1.8 MPa), Unannealed	243	°F	117	°C	
Ball Pressure Test (257°F (125°C))	Pass		Pass		IEC 60695-10-2
RTI Elec (0.06 to 0.12 in (1.5 to 3.0 mm))	257	°F	125	°C	UL 746B
RTI Imp (0.06 to 0.12 in (1.5 to 3.0 mm))	257	°F	125	°C	UL 746B
RTI Str (0.06 to 0.12 in (1.5 to 3.0 mm))	257	°F	125	°C	UL 746B
Flammability	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Flame Rating [4]					UL 94
0.016 in (0.40 mm), all color	HB		HB		
0.022 in (0.55 mm), all color	V-2		V-2		
0.06 in (1.5 mm), all color	V-0		V-0		

Injection	Nominal Value	(English)	Nominal Value	(SI)
Drying Temperature	248	°F	120	°C
Drying Time	3.0 to 4.0	hr	3.0 to 4.0	hr
Processing (Melt) Temp	518 to 572	°F	270 to 300	°C
Mold Temperature	158 to 230	°F	70 to 110	°C