EMERGE™ PC/ABS 7580

Advanced Resin

Trinseo

Message:

EMERGE PC/ABS 7580 is an ignition resistant PC/ABS blend that contains no chlorine or bromine additives. It has UL94 flammability rating of 1.5mm V-0. It fits into applications that require high heat distortion temperature. It is easy processing and high heat properties make it ideal for optimizing productivity in injection molding. Major applications include: Power adaptor & charger, Laser printer & MFP, Copiers, LAN/WLAN facilities and Electrical & Electronic components.

General Information			
UL YellowCard	E206114-546448		
Features	Bromine Free Chlorine Free Flame Retardant Good Processability High Heat Resistance		
Uses	Electrical/Electronic Applications		
Forms	Pellets		
Processing Method	Injection Molding		
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	15	g/10 min	
260°C/5.0 kg	50	g/10 min	
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	65.0	MPa	ASTM D638
Tensile Elongation (Break)	95	%	ASTM D638
Flexural Modulus	2760	MPa	ASTM D790
Flexural Strength	98.0	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C)	730	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm, Injection Molded	105	°C	
1.8 MPa, Unannealed, 3.20 mm, Injection Molded	96.0	°C	
Vicat Softening Temperature	116	°C	ASTM D1525
Ball Indentation Temperature [1]	105	°C	IEC 60335-1
Flammability	**Nominal Value**		**Test Method**

Flame Rating [2] (1.50 mm)	V-0	UL 94

Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	3.0 to 4.0	hr
Rear Temperature	220 to 250	°C
Middle Temperature	235 to 260	°C
Front Temperature	240 to 270	°C
Nozzle Temperature	240 to 270	°C
Mold Temperature	60.0 to 90.0	°C

NOTE	
1.	2 mm
2.	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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