EMERGE™ PC/ABS 7380

Advanced Resin

Trinseo

Message:

EMERGE PC/ABS 7380 advanced resin is a high flow and high toughness PC/ABS alloy. The property of EMERGE PC/ABS 7380 is specially designed with balanced toughness, tensile elongation and flexure modulus. This grade is designed for thin wall application with high heat and high mechanical strength needs.
Applications:
Mobile phone
Keycaps
Tablets and portable devices

General Information			
Features	Good Strength Good Toughness High Flow High Heat Resistance		
Uses	Electrical/Electronic Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.18	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
230°C/3.8 kg	4.0	g/10 min	
260°C/5.0 kg	24	g/10 min	
Molding Shrinkage - Flow	0.40 to 0.60	%	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield, 3.20 mm, Injection Molded)	54.0	MPa	ASTM D638
Tensile Elongation (Break, 3.20 mm, Injection Molded)	130	%	ASTM D638
Flexural Modulus (3.20 mm, Injection Molded)	2600	MPa	ASTM D790
Flexural Strength (3.20 mm, Injection Molded)	87.0	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	730	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	120	°C	
1.8 MPa, Unannealed	105	°C	
RTI Elec	60.0	°C	UL 746

RTI Imp	60.0	°C	UL 746
RTI Str	60.0	°C	UL 746

Flammability	Nominal Value	Test Method
Flame Rating [1]		UL 94
1.00 mm	HB	
3.20 mm	HB	

Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	4.0 to 6.0	hr
Processing (Melt) Temp	230 to 280	°C
Mold Temperature	60.0 to 90.0	°C

NOTE	
1.	This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.

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