

## Styron EMERGE<sup>®</sup>,ç 7550 Polycarbonate (PC) / Acrylonitrile Butadiene Styrene (ABS)

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate (PC)

### Material Notes:

EMERGE<sup>®</sup>,ç PC/ABS 7550 advanced resin is an ignition-resistant PC/ABS blend that contains no chlorine or bromine additives. This resin is suitable for use in a wide variety of applications in the information technology equipment and consumer electronics industries. Information provided by Dow This product line was spun off from Dow Chemical to Styron in 2010.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Styron-EMERGE-7550-Polycarbonate-PC-Acrylonitrile-Butadiene-Styrene-ABS.php](http://www.lookpolymers.com/polymer_Styron-EMERGE-7550-Polycarbonate-PC-Acrylonitrile-Butadiene-Styrene-ABS.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	ASTM D955
Melt Flow	10.5 g/10 min	10.5 g/10 min	ASTM D1238
	@Load 3.80 kg, Temperature 230 Å°C	@Load 8.38 lb, Temperature 446 Å°F	
	46 g/10 min	46 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 260 Å°C	@Load 11.0 lb, Temperature 500 Å°F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Ultimate	46.9 MPa	6800 psi	ASTM D638
Tensile Strength, Yield	58.6 MPa	8500 psi	ASTM D638
Elongation at Break	80 %	80 %	ASTM D638
Elongation at Yield	3.9 %	3.9 %	ASTM D638
Tensile Modulus	2.69 GPa	390 ksi	ASTM D638
Flexural Strength	95.1 MPa	13800 psi	ASTM D790
Flexural Modulus	2.83 GPa	410 ksi	ASTM D790
Izod Impact, Notched	5.87 J/cm	11.0 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
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Hot Ball Pressure Test Thermal Properties	88.0 Â°C Metric	190 Â°F English	IEC 60335-1 Comments
Deflection Temperature at 0.46 MPa (66 psi)	90.6 Â°C	195 Â°F	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	79.4 Â°C	175 Â°F	unannealed; ASTM D648
Vicat Softening Point	106 Â°C	222 Â°F	120Â°C/hr, 10N; ASTM D1525
Flammability, UL94	V-0	V-0	all colors
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	all colors except natural
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Oxygen Index	28.2 %	28.2 %	ASTM D2863
Glow Wire Test	950 Â°C	1740 Â°F	(GWFI); IEC 60695-2-12
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	950 Â°C	1740 Â°F	(GWIT); IEC 60695-2-13
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Processing Properties	Metric	English	Comments
Melt Temperature	230 - 270 Â°C	446 - 518 Â°F	
Mold Temperature	60.0 - 90.0 Â°C	140 - 194 Â°F	
Drying Temperature	80.0 - 90.0 Â°C	176 - 194 Â°F	
Dry Time	3 - 4 hour	3 - 4 hour	

## Contact Songhan Plastic Technology Co.,Ltd.

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