

## Styron EMERGE<sup>®</sup>,ç 5710 Acrylonitrile Butadiene Styrene (ABS)

Category : Polymer , Thermoplastic , ABS Polymer

### Material Notes:

EMERGE<sup>®</sup>,ç ABS 5710 advanced resin is an ignition resistant ABS resin with an excellent balance of flow and impact strength.

Applications: Monitor Enclosures Surge Protectors and UPS Enclosures Information Technology Equipment 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-5710-Acrylonitrile-Butadiene-Styrene-ABS.php](http://www.lookpolymers.com/polymer_Styron-EMERGE-5710-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 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
Melt Flow	11 g/10 min @Load 3.80 kg, Temperature 230 Å°C	11 g/10 min @Load 8.38 lb, Temperature 446 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	101	101	ASTM D785
Tensile Strength, Ultimate	30.3 MPa	4400 psi	0.125 in, injection molded, unannealed; ASTM D638
Tensile Strength, Yield	36.5 MPa	5300 psi	0.125 in, injection molded, unannealed; ASTM D638
Elongation at Break	30.3 %	30.3 %	0.125 in, injection molded, unannealed; ASTM D638
Elongation at Yield	2.3 %	2.3 %	0.125 in, injection molded, unannealed; ASTM D638
Flexural Strength	63.4 MPa	9200 psi	0.125 in, injection molded, unannealed; ASTM D790
Flexural Modulus	2.49 GPa	361 ksi	0.125 in, injection molded, unannealed; ASTM D790
Izod Impact, Notched	2.03 J/cm	3.80 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	70.2 Åµm/m-Å°C @Temperature -30.0 - 30.0 Å°C	39.0 Åµin/in-Å°F @Temperature -22.0 - 86.0 Å°F	ASTM D696

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (0.07 in)	72.2 Â°C	162 Â°F	unannealed (0.125 in); ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	76.1 Â°C	169 Â°F	unannealed (0.250 in); ASTM D648
Vicat Softening Point	66.1 Â°C	151 Â°F	unannealed (0.125 in); ASTM D648
Flammability, UL94	83.9 Â°C	183 Â°F	120Â°C/hr, 10N; ASTM D1525
	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Oxygen Index	28 %	28 %	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	180 - 210 Â°C	356 - 410 Â°F	
Mold Temperature	40.0 - 60.0 Â°C	104 - 140 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	
Dry Time	3 - 4 hour	3 - 4 hour	

## Contact Songhan Plastic Technology Co.,Ltd.

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