

## LG Chemical 20HRE GPPS

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Molded, Unreinforced

**Material Notes:**

High strength, Superior transparency and processability, good appearance, non-toxicity (Conforming to FDA CFR 177.1640), Excellent electrical properties, Heat resistance and chemical resistance, Superior extrusion processing suitable for OPS, PSP and synthetic wood, Applications include radio housing, name plates for electrical equipment, and cosmetic cases

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LG-Chemical-20HRE-GPPS.php](http://www.lookpolymers.com/polymer_LG-Chemical-20HRE-GPPS.php)

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in <sup>3</sup>	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	ASTM D955
Melt Flow	5.8 g/10 min @Load 5.00 kg, Temperature 200 Â°C	5.8 g/10 min @Load 11.0 lb, Temperature 392 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Yield	46.2 MPa	6700 psi	50 mm/min; ASTM D638
Elongation at Break	4.0 %	4.0 %	50 mm/min; ASTM D638
Flexural Yield Strength	88.4 MPa	12800 psi	15 mm/min; ASTM D790
Flexural Modulus	3.10 GPa	450 ksi	15 mm/min; ASTM D790

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	85.0 Â°C @Thickness 12.7 mm	185 Â°F @Thickness 0.500 in	Unannealed; ASTM D648
Vicat Softening Point	103 Â°C	217 Â°F	1000 g; ASTM D1525
Flammability, UL94	HB	HB	1/8 in
	HB	HB	1/16 in
Flame Spread	27.0 mm/min @Thickness 3.17 mm	1.06 in/min @Thickness 0.125 in	FH3

**Contact Songhan Plastic Technology Co.,Ltd.**

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