

**Resirene Resirene® HF-555 General Purpose Polystyrene**

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

**Material Notes:**

Features: Very High Flow Easy Processing High Productivity FDA Rating: 21 CFR 177.1640 External Lubrication Available Applications: Thin Wall Applications Injection Hard to Fill Molds Disposables Cosmetics Cases Information provided by US distributor Calsak Corporation.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Resirene-Resirene-HF-555-General-Purpose-Polystyrene.php](http://www.lookpolymers.com/polymer_Resirene-Resirene-HF-555-General-Purpose-Polystyrene.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Linear Mold Shrinkage	0.0030 - 0.0070 cm/cm	0.0030 - 0.0070 in/in	ASTM D955
Melt Flow	17 g/10 min @Load 5.00 kg, Temperature 200 °C	17 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	33.8 MPa	4900 psi	ASTM D638
Elongation at Break	2.4 %	2.4 %	ASTM D638
Tensile Modulus	3.103 GPa	450.1 ksi	ASTM D638
Izod Impact, Notched	0.160 J/cm	0.300 ft-lb/in	0.5 in.; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	77.0 °C	171 °F	ASTM D648
Flammability, UL94	HB	HB	

Optical Properties	Metric	English	Comments
Transmission, Visible	88 %	88 %	ASTM D1003

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