

Resirene Resirene® HH-104 General Purpose Polystyrene

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

Material Notes:

Features:Medium FlowHigh HeatHigh Molecular WeightExternal LubricationFDA Rating: 21 CFR 177.1640Mold

ReleaseApplications:InjectionPen BarrelsCassettesInformation provided by US distributor Calsak Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Resirene-Resirene-HH-104-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 | 4.0 g/10 min @Load 5.00 kg, Temperature 200 °C | 4.0 g/10 min @Load 11.0 lb, Temperature 392 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|------------|----------------|--------------------|
| Tensile Strength at Break | 41.4 MPa | 6000 psi | ASTM D638 |
| Elongation at Break | 3.0 % | 3.0 % | ASTM D638 |
| Tensile Modulus | 2.896 GPa | 420.0 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) | 87.0 °C | 189 °F | ASTM D648 |
| Flammability, UL94 | HB | HB | |

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

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