

Samsung Cheil Industries Starex[®] SG-301 Expandable Polystyrene (EPS) High Expansion

Category : Polymer , Thermoplastic , Polystyrene (PS) , Expanded Polystyrene (EPS)

Material Notes:

Typical Application : Large Float
Information provided by Samsung Cheil Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Starex-SG-301-Expandable-Polystyrene-EPS-High-Expansion.php

| Physical Properties | Metric | English | Comments |
|---------------------|------------------|-----------------------------|-----------------------------|
| Specific Gravity | 1.03 - 1.05 g/cc | 1.03 - 1.05 g/cc | |
| Density | 0.0160 g/cc | 0.000578 lb/in ³ | Based on 65 times expansion |
| Bead Size | 0.720 - 0.960 mm | 0.0283 - 0.0378 in | JIS Z8801 |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|-------------|------------|--|
| Flexural Strength | 2.40 MPa | 348 psi | @ 20 kg/m ² ; ASTM DC201 |
| Compressive Strength | >= 1.10 MPa | >= 160 psi | @ 20 kg/m ² ; JIS A9511, ASTM D1621 |

| Chemical Properties | Metric | English | Comments |
|-----------------------|-------------|-------------|----------|
| Blowing Agent Content | 6.0 - 7.0 % | 6.0 - 7.0 % | Pentane |

| Descriptive Properties | Value | Comments |
|------------------------|----------|----------------------------------|
| Blocking | <2% | |
| Expandability | 65 Times | Expansion for 5 min Cheil Method |
| Fusion | >70% | Cheil Method |
| Polymer Content | 93-94% | |

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