

Total PSI 625 Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

Polystyrene 625 is a medium impact polystyrene with balanced physical properties. Thin walled parts with complex runners and gates, run fast and consistently with the easy flow 625. The natural whiteness of 625 allows for brightness of color matches. 625 is the base carrier of choice for concentrate producers. This polymer is utilized in applications such as scale models, toys, house wares, and containers requiring consistency from shot to shot. Information provided by Total Petrochemicals, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PSI-625-Polystyrene.php

| Physical Properties | Metric | English | Comments |
|---------------------|--------------------------------------|--------------------------------------|------------|
| Melt Flow | 13 g/10 min | 13 g/10 min | ASTM D1238 |
| | @Load 5.00 kg, Temperature 200 °C | @Load 11.0 lb, Temperature 392 °F | |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|------------|---------------|------------|
| Tensile Strength, Yield | 24.8 MPa | 3600 psi | ASTM D638 |
| Elongation at Yield | 45 % | 45 % | ASTM D638 |
| Tensile Modulus | 2.48 GPa | 360 ksi | ASTM D638 |
| Flexural Strength | 44.8 MPa | 6500 psi | ASTM D790 |
| Flexural Modulus | 2.34 GPa | 340 ksi | ASTM D790 |
| Izod Impact, Notched | 0.747 J/cm | 1.40 ft-lb/in | ASTM D256 |
| Falling Dart Impact | 11.3 J | 8.33 ft-lb | ASTM D3029 |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|---------|---------|--------------------------------------|
| Maximum Service Temperature, Air | 87.8 °C | 190 °F | Heat Distortion, Annealed; ASTM D648 |
| Vicat Softening Point | 92.2 °C | 198 °F | ASTM D1525 |

| Optical Properties | Metric | English | Comments |
|--------------------|--------|---------|----------------|
| Gloss | 95 % | 95 % | 60°; ASTM D523 |

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