

## Total PSI 740 Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Impact Modified

**Material Notes:**

Polystyrene 740 is an impact polystyrene designed for extrusion and injection molding. It is especially suitable for extrusion thermoforming applications requiring high glass and high stiffness, such as food service disposable. A unique combination of thermal characteristics favors 740 for fast injection cycles in high gloss small appliance and electronics application. Information provided by Total Petrochemicals, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Total-PSI-740-Polystyrene.php](http://www.lookpolymers.com/polymer_Total-PSI-740-Polystyrene.php)

Physical Properties	Metric	English	Comments
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, Yield	29.6 MPa	4300 psi	ASTM D638
Elongation at Yield	45 %	45 %	ASTM D638
Tensile Modulus	2.34 GPa	340 ksi	ASTM D638
Flexural Strength	57.2 MPa	8300 psi	ASTM D790
Flexural Modulus	2.55 GPa	370 ksi	ASTM D790
Izod Impact, Notched	1.01 J/cm	1.90 ft-lb/in	ASTM D256
Falling Dart Impact	14.13 J	10.42 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	95.0 °C	203 °F	Heat Distortion, Annealed; ASTM D648
Vicat Softening Point	98.9 °C	210 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Gloss	90 %	90 %	60°; ASTM D523

## Contact Songhan Plastic Technology Co.,Ltd.

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