

American Polymers API 645-21 Polystyrene

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

Material Notes:

API 645-21 is a super high impact polystyrene used in applications requiring a superior level of toughness along with good tensile and flexural properties. On balance this extrusion grade polymer approaches some ABS properties. Applications: Widely used in sheet stock, housings, profiles and tubing where a high degree of impact over convention PS is needed. Information provided by American Polymers, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_American-Polymers-API-645-21-Polystyrene.php

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in ³	ASTM D792
Melt Flow	3.0 g/10 min	3.0 g/10 min	Condition G; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	45	45	ASTM D785
Tensile Strength, Ultimate	20.7 MPa	3000 psi	ASTM D638
Elongation at Break	45 %	45 %	ASTM D638
Tensile Modulus	1.86 GPa	270 ksi	ASTM D638
Flexural Modulus	2.07 GPa	300 ksi	ASTM D790
Izod Impact, Notched	1.60 J/cm @Thickness 3.17 mm	3.00 ft-lb/in @Thickness 0.125 in	injection molded sample; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	77.8 °C	172 °F	Annealed; ASTM D648
Vicat Softening Point	95.6 °C	204 °F	ASTM D1525

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