

Technical Information



STYRON X-TECH™ 4660

General Purpose Polystyrene Resin

Overview

STYRON X-TECH™ 4660 is a modified general-purpose polystyrene developed for XPS insulation board production based on new and patented PS chemistry. In combination with the active ingredient in masterbatch XZ82347.00 this product will develop a unique molecular structure with leads to exceptional melt strength and will result in superior property balance in XPS insulation board and outstanding extrudability.

Benefits:

- Heat resistance
- High toughness
- Easy flow

Applications:

- Foam extrusion

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.04 g/cm ³	1.04 g/cm ³	ISO 1183
Apparent (Bulk) Density	0.60 g/cm ³	0.60 g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	7.0 g/10 min	7.0 g/10 min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress (Yield)	5800 psi	40.0 MPa	ISO 527-2/5
Tensile Strain (Break)	2.0 %	2.0 %	ISO 527-2/5
Flexural Modulus	478000 psi	3300 MPa	ISO 178
Flexural Stress	11600 psi	80.0 MPa	ISO 178
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness	21800 psi	150 MPa	ISO 2039-1
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Annealed	205 °F	96.0 °C	ISO 75-2/A
Vicat Softening Temperature	225 °F	107 °C	ISO 306/A120
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating ¹ (0.06 in (1.5 mm))	HB	HB	UL 94

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

¹ This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.

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