

STYRON™ 650 HF

General Purpose Polystyrene Resin

Overview

STYRON™ 650 HF is a high melt flow rate general purpose resin specifically developed for medium to thick XPS board applications. It offers a unique balance of melt tension, processability and foaming behavior. Its high MFR also makes it very suitable for high dosing compounding applications.

Main Characteristics

- Very high melt flow rate
- Excellent foamability

Applications:

- Foam sheet
- Masterbatch production

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)	46 g/10 min	46 g/10 min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress (Yield)	7110 psi	49.0 MPa	ISO 527-2/5
Tensile Strain (Break)	3.0 %	3.0 %	ISO 527-2/5
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	214 °F	101 °C	ISO 306/A120

Additional Information

Mass balance versions (bio-based (BIO) or chemically recycled (CR)) of this product are chemically and physically indistinguishable to the standard fossil grade. This technical data sheet applies to all versions. Letters of sameness are available upon request.