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

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	1.04	g/cm³	1.04	g/cm³	ASTM D792 ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	46	g/10 min	46	g/10 min	ASTM D1238 ISO 1133
Mechanical	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Tensile Strength					
Yield, 0.126 in (3.20 mm) [1]	711	psi	4.90	MPa	ASTM D638
Yield, 0.126 in (3.20 mm)	711	psi	4.90	MPa	ISO 527-2/5
Tensile Elongation					
Break, 0.126 in (3.20 mm) [1]	3.0	%	3.0	%	ASTM D638
Break, 0.126 in (3.20 mm)	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 ASTM D1525 [2]