

ASCHEM HIPS High Impact Polystyrene

HIPS 825E

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Description

High impact polystyrene HIPS 825E is an opaque polymer with low melt flow rate, good tensile and flexural strength properties.

Applications

It is primarily designed for extrusion and thermoforming applications. It can be used for food packaging and dairy products.

Characteristic Properties (Typical Data)*

Properties	SI Units	Values	Test Methods
Polymer Properties			
Melt Flow Rate (MFR) 200 °C and 5 Kg	g/10 min	4,0	ASTM D 1238
Mechanical Properties			
Tensile Test			
Tensile Strength	MPa	20	ASTM D 638
Tensile Elongation	%	44	ASTM D 638
Tensile Modulus	MPa	2090	ASTM D 638
Flexural Test			
Flexural Modulus	MPa	1923	ASTM D 790
Flexural Strength	MPa	39	ASTM D 790
Izod Impact Strength, Notched at 23 °C	J/m	135	ASTM D256
Thermal Properties			
Heat Deflection Temperature			
Rate 120 °C/h, 0,45 MPa, Annealed	°C	92	ASTM D 648
Vicat Softening Temperature			
Rate B, 10N	°C	97	ASTM D 1525
Flammability Rating		HB**	UL-94

*These values are typical data that shouldn't be accepted as specification limits.

** Thickness 1.5 mm, HB75
Thickness 3.0 mm, HB40

Disclaimer

The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties. It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes. The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us. Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.