

HIGH IMPACT POLYSTYRENE (HIPS)

DESCRIPTION

A versatile, cost-effective extruded polystyrene that can be used in a variety of applications. Our HIPS can be used in point of purchase displays, in-store signage, food and medical trays, horticultural signage and tags.

CHARACTERISTICS

- Can be Offset Lithography, Screen, UV Digital and Flexography printed
- Can be heat bent, die cut, punched, thermoformed and guillotine cut
- Excellent dimensional stability
- Provides good toughness, stiffness and impact strength
- Available in sheets or rolls
- Available in a variety of opacities from natural to dead opaque
- Corona treatment, Impact Modifiers or UV Inhibitors available upon request
- Surfaces include matte/matte, gloss/matte
- FDA approved materials available

FDA STATUS

Manufactured with materials compliant with FDA regulations

COMPLIANCE

Please visit transcendia.com/compliance for more compliance information.

TECHNICAL DATA

PROPERTIES		UNIT	TYPICAL VALUES	TEST METHOD
Thickness ± 5% or .001 max (whichever is greater)		in.	.010" TO .125"	ASTM T411
Yield		MSI/lb.	2.75 @ .010	ASTM T410
Specific Gravity		g/cm ³	1.03	ASTM D1505
Tensile Strength @ Break	MD	psi	2700	ASTM D882
	TD		3500	
Elongation @ Break	MD	%	30%	
	TD		50%	
Tear Resistance - Initiated	MD	lb.	0.15	ASTM D1938
	TD		0.39	
Tear Resistance - Uninitiated	MD	lb.	2.3	ASTM D1004
	TD		3.1	
Stiffness	MD	Taber Units	14.2 @ .010	ASTM D5342
	TD		15.6 @ .010	
HDT @ 264 psi**		°F	185°	ASTM D648
**indicates data was obtained from molded samples only, in an unannealed state.				

*All information, recommendations and suggestions contained herein, including, without limitations, stated values (collectively the "Information") shall be used only as a guide by Purchaser and not for specification or any other purpose. The Information does not constitute a warranty nor guaranty of any type whatsoever. Purchaser should independently determine the suitability of all material purchased and must confirm adaptability and other characteristics by conducting its own test. Transcendia shall have no liability as a result of any loss, expense, damage, cost or other injury which results from Purchaser's reliance on the Information.

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