Asaflex™ 825

Styrene Butadiene Styrene Block Copolymer

AKelastomers

Message:

Injection- and blow-molding grade. For transparent products with superior impact strength. Blended with GPPS (general-purpose polystyrene) or SC*, for films with good thermal stability. Capability for profile-extrusion products. It is supplied in pellet form.
Cosmetics caps, stationery goods, other consumer goods. Blended with GPPS for PSP* laminate films and IC magazine rails, and with SC* for shrink films.
* Styrenic copolymer from PS Japan Corp. similar to Asaflex™ 825 in refraction index, resulting in blends that provide sheet transparency significantly higher than attainable with any GPPS.

General Information	
Features	Copolymer
	Good Thermal Stability
	High Clarity
	High Impact Resistance
Uses	Consumer Applications
	Cosmetic Packaging
	Film
	Laminates
	Profiles
	Stationary Supplies
	Water Sports Equipment
Appearance	Clear/Transparent
Forms	Pellets
Processing Method	Blow Molding
	Injection Molding
	Profile Extrusion

Physical	Nominal Value	Unit	Test Method
Density	1.02	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	6.0	g/10 min	ISO 1133
Molding Shrinkage	0.20 to 0.80	%	
Water Absorption (23°C, 24 hr)	0.10	%	ISO 62
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	55		ISO 2039-2
Shore Hardness (Shore D)	71		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Yield)	27.0	MPa	ISO 527-2/5
Tensile Strain (Break)	200	%	ISO 527-2/5

Flexural Modulus	1200	MPa	ISO 178
Flexural Stress	37.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (Complete Break)	2.0	kJ/m^2	ISO 179
Charpy Unnotched Impact Strength (Complete Break)	100	kJ/m^2	ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	57.0	°C	ISO 75-2/A
Vicat Softening Temperature	82.0	°C	ISO 306/A50
Optical	**Nominal Value**	**Unit**	**Test Method**
Transmittance (2000 µm)	90.0	%	ISO 3537
Haze (2000 µm)	0.50	%	ISO 3537

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