

Product Information Asaflex™

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Table of Asaflex™ Grades and Properties

[Click on Grade No. for basic profile](#)

Asaflex™ high-performance clear styrenic copolymer												
			Asaflex™						i-series			
Grade No.			805	810	815	825	830	835	840	845	i-100	i-350 (Waxed)
Typical Processing			Injection molding	Films, sheets	Sheets	Injection molding Blow molding	Films, sheets	Sheets	Injection molding Films, sheets	Sheets	Shrink films	Films, sheets
Special characteristics			Transparency Appearance Stiffness Surface hardness	Styrenics impact strength Hinge	Styrenics compatibility Bi-axially balanced extruded sheets	Impact strength Transparency Thermal stability	Property balance	Transparency Impact strength	Property balance Thermal stability	GPPS compatible	Impact strength Transparency Thermal stability	Styrenics compatibility Thermal stability
Property	Method	Units			(waxed)			(waxed)		(waxed)		
Density	ISO1183	kg/m ³	1.02 × 10 ³	1.01 × 10 ³	1.02 × 10 ³		1.01 × 10 ³		1.02 × 10 ³		1.01 × 10 ³	1.02 × 10 ³
Water absorption	ISO62	%	<0.1	<0.1	<0.1		<0.1		<0.1		<0.1	<0.1
MFR (200 ° C, 5 kg load)	ISO 1133	g/10 min	10	5	6		5		7		6	8
Mold shrinkage	-	%	0.2-0.8	0.2-0.8	0.2-0.8		0.2-0.8		0.2-0.8		0.2-0.8	0.2-0.8
Tensile strength ¹	ISO 527-1	MPa	30	20	27		18		27		21	16
Elongation ¹		%	15	250	200		250		40		220	170
Flexural strength	ISO 178	MPa	50	24	37		21		34		24	24
Flexural modulus		MPa	1,550	1,400	1,200		1,100		1,500		1200	1120
Rockwell hardness	ISO 2039-2	-	HRR 88	HRR<10	HRR 55		HRR<10		HRR<10		HRR<10	HRR<10
Durometer hardness	ISO 868	-	HDD 75	HDD 62	HDD 71		HDD 55		HDD 68		HDD 58	HDD 64
Charpy imp. strength ² , unnotched	ISO 179	kJ/m ²	16	NB	100		NB		NB		NB	NB
Charpy imp. strength ² , V-notched		kJ/m ²	1.3	P	2		P		2		NB	P

Heat dist. temp. 3	ISO 75-1	° C	63	65	57	60	62	60	-		
Vicat softening point 4	ISO 306	° C	91	83	82	72	81	78	-		
Total light trans.5	ISO 3537	%	90	89	90	89	88	90	89		
Haze 5		%	0.5	1.2	0.5	2	1.2	2	1.0		
Typical applications		Cosmetics caps Food containers	Laminate films Food containers	Hi-transparency blister packs	Cosmetics caps Gardening ampoules Laminate films Shrink films	Shrink films	Transparent, hi- impact blister packs	Laminate films Shrink films	Drink cups Food containers	Shrink films	Food containers

¹ At 5 mm/min for Asaflex™ 805, and at 50 mm/min for all other grades.

² Value at fracture into two or more pieces;

NB, non-break at 15 J;

P, partial break at 15 J.

³ Non-annealed, 1.8 MPa load, 3 mm width.

⁴ 10 N load, 50 K/h

⁵ 2 mm plate.

Please note that all data and values are given as typical results obtained with the indicated test methods for purposes of basic reference in grade selection only, and not as any product specification or warranty of any nature, and are subject to change without notice.

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