

Breakthrough Newsheet

Sheet No. AFX-01
AsahiKASEI

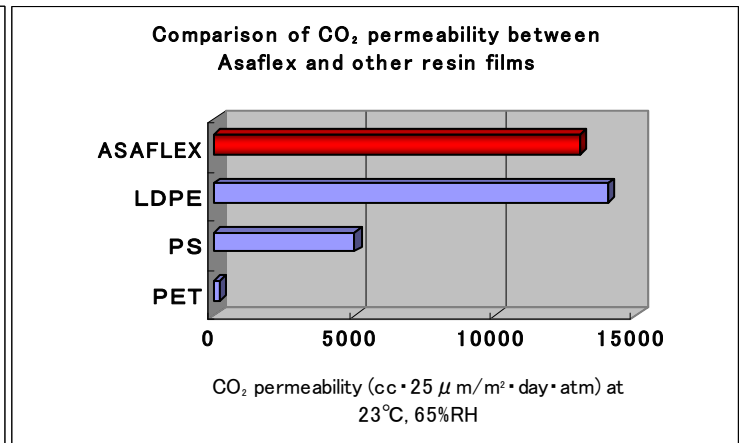
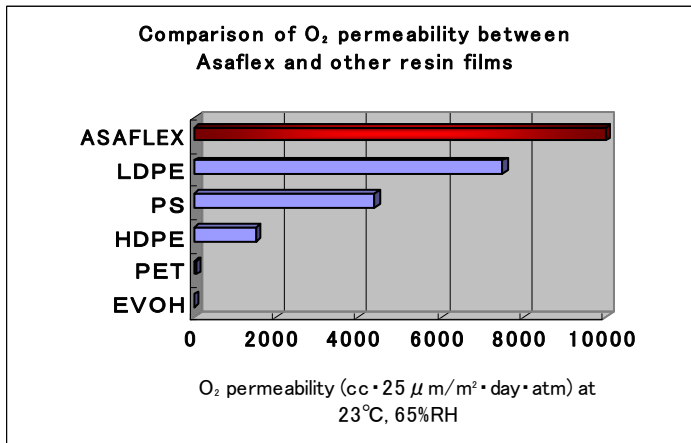
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Grade: ASAFLEX™ Series

Asahi Kasei Chemicals Corporation Synthetic Rubber Division
Elastomer Sales Dept. 1
1-105 Kanda Jinbocho, Chiyoda-ku, Tokyo 101-8101 Japan

Transparent film with excellent stiffness and gas permeability enabled by ASAFLEX™ series

Blending ASAFLEX™ with other styrenic resins enable controlling the balance of transparency, elongation and stiffness for various applications.
Also by making multi-layer film with ASAFLEX™ and LDPE, less breakable film with gas permeability, elasticity, and transparency can be obtained.



Property (*2)	units	Blend ratio of ASAFLX™ 825/SC004(*1)					LDPE
		100	70/30	50/50	30/70	100	
O ₂ permeability	(*3)	10000	8500	7600	6600	5100	7500
CO ₂ permeability	(*3)	13000	10000	8000	6000	2600	14000
Light transmission	%	99	99	99	99	99	98
Haze	%	0.2	0.3	0.6	0.3	0.2	6.5
Tensile modulus	MPa	1000	1510	1890	2320	2630	160
Tensile strength	MPa	18	23	28	38	36	9
Elongation at break (TD)	%	≥300	≥300	≥300	250	1.5	≥300
Water-vapor permeability	(*4)	110	100	100	100	100	30

*1) SC004: Styrenic copolymer from PS Japan Corp.

*2) 0.3mm T-die Sheet.. Tensile modulus, Tensile strength: Average of MD and TD

*3) CC.25μm/m².day.atm at 23°C, 65RH (equal-pressure method)

*4) CC.25μm/m².day.atm at 40°C, 90RH (equal-pressure method)

All data and values based on specific test methods, and given for basic reference only and not as any warranty or specification.
Applications shown for illustration only, and represent no warranty of suitability or non-infringement of intellectual property rights.
The product of Asahi Kasei Chemicals shown herein must not be used for any medical device or drug, except with its express written consent.

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