

VALOX™ HPNGAF FILM

PRODUCT DATASHEET

DESCRIPTION

VALOX™ HPNGAF film is a one-side coated anti-fog PET film. It offers long-term anti-fog performance, abrasion resistance, impact resistance, and good optical clarity. HPNGAF film also provides chemical resistance. Typical applications include: Instrument lenses & display panels, industrial and sports eye wear, telecomm and electronic lenses.

TYPICAL PROPERTY VALUES

PROPERTY	ASTM TEST METHOD	UNITS USCS	VALUE	UNITS (METRIC)	VALUE
MECHANICAL					
Elongation at Break MD	ASTM D882A	ft-lb	150	N-m	203
Elongation at Break TD	ASTM D882A	ft-lb	100	N-m	135
Yield (nominal)		in ² /lb	5,000	M ² /kg	7
Yield Strength MD	ASTM D882A	PSI	14,000	Kg/m ²	9,842,000
Yield Strength TD	ASTM D882A	PSI	14,000	Kg/m ²	9,842,000
THERMAL					
Shrinkage MD (190C)		%	<2.5		
Shrinkage TD (190C)		%	<1.0		
PHYSICAL					
Thickness (Gauge)		mil	4	mm	0.1
Pencil Hardness	ASTM D3363	-	F		
Taber Abrasion	ASTM D1044	delta Haze	6-10		
OPTICAL					
Light Transmission	ASTM D1003	%	>88		
Haze	ASTM D1003	%	<0.5		
ANTIFOG PROPERTIES					
45degree angle over 50C water bath		sec	>90		

◆ These are typical properties and are not intended for specification purposes. If minimum certifiable properties are required, please contact your local SABIC representative or the SABIC Quality Services Department.
Reported Values are based on 4mil gauge thickness unless otherwise noted.
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