

Typical Properties of ACRYPLEN™

Features				Soft Type	Soft Type	Hard Type	Hard Type	
				Transparency Weatherability	Transparency Weatherability Matt	Pencil hardness:2H	Molding Whitening-resistant	
ITEM	Method	Unit		HBS006 50 μm	HBS027 50 μm	HBXN47 125 μm	HBS010 125 μm	
Density	ISO 1183	g/cm ³		1.14	1.14	1.14	1.14	
Optical Properties	Total Transmittance	JIS K7105	%	93	91	93	93	
	Haze	JIS K7105	%	0.6	62	2	0.3	
	Gloss	JIS K7105	%	—	14	—	—	
Mechanical Properties	Tensile Strength (Yield)	JIS K7127	MPa	MD	34	38	63	51
				TD	33	34	61	51
	Elongation	JIS K7127	%	MD	117	102	33	50
				TD	143	135	27	50
	Tear Strength	JIS K7128-2	N	MD	0.13	0.12	0.25	0.23
				TD	0.16	0.13	0.28	0.25
	Heat shrinkage	JIS K7133 (100°C10min)	%	MD	15	15	1	0.5
				TD	-3	-3	0.1	0.1
Chemical Resistance	Acid (H ₂ SO ₄ , HCl, HNO ₃ 10% solution)			Stable	Stable	Stable	Stable	
	Alkali (NaOH 10% solution)			Stable	Stable	Stable	Stable	
	Petroleum Chemicals (Aceton, Ethyl Acetate, Benzene, Toluene) (Methanol)			Dissolved	Dissolved	Dissolved	Dissolved	
				Whitened	Whitened	Whitened	Whitened	

* These data described above are typical properties, not for specifications

* Thickness: Between 25 and 200 microns (0.025 and 0.2 millimeters); please inquire if greater thicknesses are required

* Width: Can be manufactured up to 2,100 mm

