



Makrolon® UC sheet

Ultra clear

Makrolon® UC sheet is a polycarbonate product exhibiting unsurpassed visible light transmission versus other polycarbonate sheet products. This high clarity sheet is specifically designed for use in multilayer laminates.

Applications

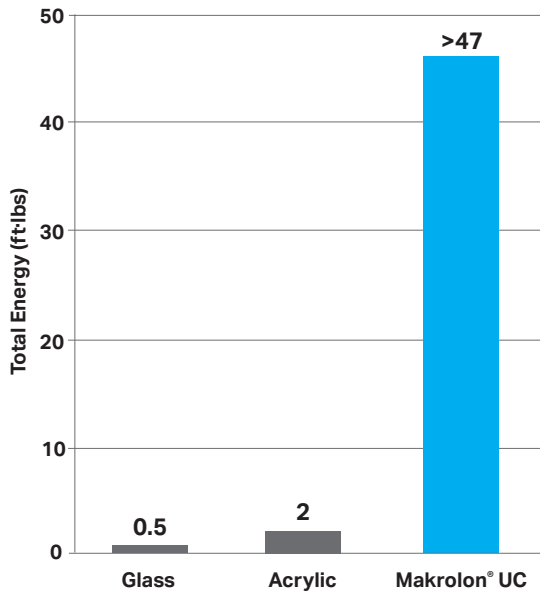
Specialty laminates

Typical Properties*			
Property	Test Method	Units	Values
PHYSICAL			
Specific Gravity	ASTM D 792	-	1.2
Refractive Index @ 72°F	ASTM D 542	-	1.586
Light Transmission, Clear @ 0.118"	ASTM D 1003	%	91
Water Absorption, 24 hours	ASTM D 570	%	0.15
MECHANICAL			
Tensile Strength, Ultimate	ASTM D 638	psi	9,500
Tensile Strength, Yield	ASTM D 638	psi	9,000
Tensile Modulus	ASTM D 638	psi	340,000
Elongation	ASTM D 638	%	110
Flexural Strength	ASTM D 790	psi	13,500
Flexural Modulus	ASTM D 790	psi	345,000
Compressive Strength	ASTM D 695	psi	12,500
Compressive Modulus	ASTM D 695	psi	345,000
Izod Impact Strength, Notched @ 0.125"	ASTM D 256	ft-lbs/in	18
Izod Impact Strength, Unnotched @ 0.125"	ASTM D 256	ft-lbs/in	60 (no failure)
Instrumented Impact @ 0.125"	ASTM D 3763	ft-lbs	>47
THERMAL			
Coefficient of Thermal Expansion	ASTM D 696	in/in/°F	3.75 x 10 ⁻⁵
Heat Deflection Temperature @ 264 psi	ASTM D 648	°F	270
Heat Deflection Temperature @ 66 psi	ASTM D 648	°F	280

*Typical Properties are not intended for specification purposes

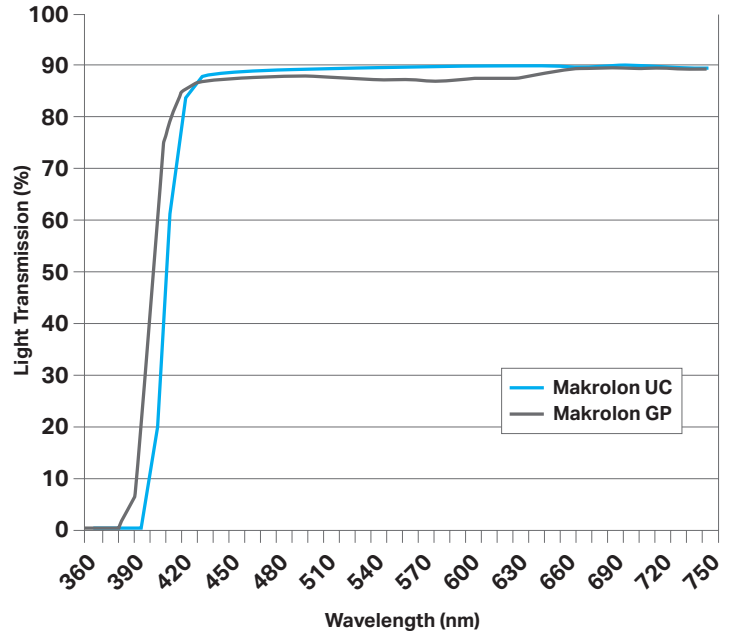
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Impact Resistance*



*Instrumented Impact per ASTM D 3763, sample thickness 0.125" nominal

Spectral Transmission



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