



C E T F I L M S
A NEKOOSA COMPANY

CLARICAP™ T ACRYLIC

TECHNICAL DATA SHEET

ClariCap™ T Acrylic is a cast extruded, impact modified and UV stabilized acrylic (PMMA) interior/exterior grade of capping film that is designed for use on heavy gauge sheet that requires excellent texture/grain retention even after thermoforming.

- **Appearance:** Clear/transparent, translucent and opaque colors available. Multiple gloss/textures available.
- **Characteristics:** .003" (75 μ) standard thickness available. Up to 64.5" (1638 mm) wide. Exterior grade, excellent UV resistance, good scratch resistance, exceptional clarity, printable, thermoformable. 002" (50 μ) to .020" (500 μ) thickness available.
- **Applications:** Shower/tub surrounds, RV & mobile homes, printed decorative surfaces, automotive after-market, POP/display, heavy textured thermoformed products.

Typical Properties (Average Values)

Property	Value	Units	Test Method
Physical			
Melt Flow Rate (230°C/3.8 kg)	3.3	g/10 min	ASTM D1238
Specific Gravity	1.15	–	ASTM D792
Mold Shrinkage	0.3-0.8	%	ASTM D955
Water Absorption (24 hr immersion)	0.4	% weight gain	ASTM D570
Optical			
Refractive Index (N _d @ 72°F)	1.49	–	ASTM D542
Luminous Transmittance (0.125 in/3.2 mm)	90	%	ASTM D1003
Haze (0.125 in/3.2 mm)	<1	%	ASTM D1003
Mechanical			
Tensile Strength @ Maximum	5,500	psi	ASTM D638
Tensile Elongation @ Break	50	%	ASTM D638
Tensile Modulus	270,000	psi	ASTM D638
Flexural Strength @ Maximum	10,300	psi	ASTM D790
Flexural Modulus	270,000	psi	ASTM D790
Notched Izod Impact (73°F)	0.9	ft-lb/in notch	ASTM D256
Rockwell Hardness	38	M-scale	ASTM D785
Thermal			
HDT (0.455 MPa; annealed) ¹	192	°F	ASTM D648
HDT (1.82 MPa; annealed) ¹	175	°F	ASTM D648
Vicat Softening Point (50°C/hr; 10N)	201	°F	ASTM D1525
Vicat Softening Point (50°C/hr; 50N)	181	°F	ASTM D1525
Thermal Conductivity	1.5	BTU/hr*ft ² *F/in	ASTM C177
Flammability	HB	Class	ASTM UL94
Classification			
ASTM Classification	PMMA 0231V3	–	ASTM D788

¹ Annealing cycle: 4hrs @ 176°F

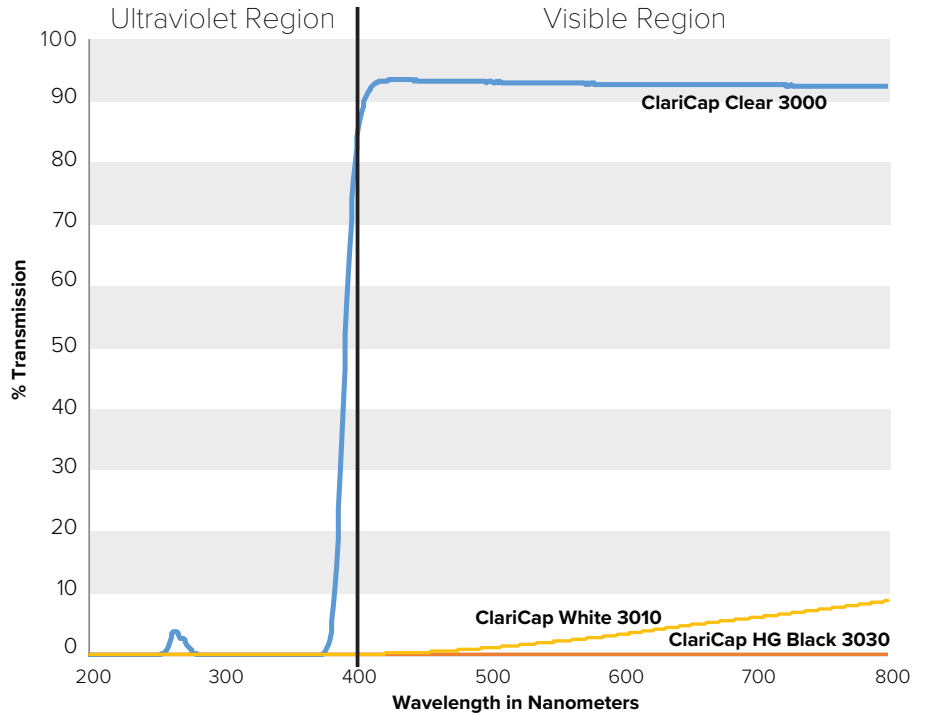
The values presented are intended to provide a representative sampling of the material provided. Data given are average values and should not be used for specification purposes. CET Films makes no representation on suitability and performance of the product for any given application. Purchaser is responsible for determining suitability and performance within their process. Nothing herein waives any of the Seller's conditions of sale.

CHEMICAL RESISTANCE TO SOLVENTS

ASTM D-543-06, Practice A, Section II, Procedure I, 7 days immersion at 75°F.

Solvents	Results
Ethyl Alcohol (10%)	Swollen
Iso-Octane	No Change
Gasoline	No Change
JP-4 Jet Fuel	No Change
Motor Oil (SAE-30, ASTM #3)	No Change
Ethyl Acetate	Dissolved
Toluene	Dissolved
Sulfuric Acid (30%)	No Change
Nitric Acid (10%)	No Change

PERCENT UV TRANSMISSION



ABRASION TESTING - CLARICAP™ ACRYLIC VS COMPETITOR

ASTM D4060-14

	Test Number	Initial Weight (mg)	Final Weight (mg)	Weight Loss (mg)	Wear Index
CET ClariCap™ T 3010 HG White	1	35418.7	3535.0	68.7	69
	2	35615.4	35538.3	77.1	77
	3	35632.3	35552.8	79.5	80
			Average	75.1	75
			Range	10.8	10.8
CET ClariCap™ 3010 HG White	1	36393.9	36357.0	36.9	37
	2	36559.7	36525.4	34.3	34
	3	36682.1	36651.7	30.4	30
			Average	33.9	34
			Range	6.5	6.5
Competitor White	1	35620.9	34508.8	112.1	112
	2	34766.1	34646.1	120.0	120
	3	34868.7	34732.4	136.3	136
			Average	122.8	123
			Range	24.2	24.2

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