

PLEXIGLAS® Rnew® B514

ACRYLIC RESIN

Typical Properties

	Value	Units	Test method
Physical			
Renewable Carbon	28	%	ASTM D6866
Melt Flow Rate (230°C/3.8 kg)	3.9	g/10 min	ASTM D1238
Specific Gravity	1.16	-	ASTM D792
Mold Shrinkage	0.2 - 0.6	%	ASTM D955
Water Absorption (24 hr immersion)	0.3	% weight gain	ASTM D570
Mechanical			
Tensile Strength @ Maximum	5,200	psi	ASTM D638
Tensile Modulus	230,000	psi	ASTM D638
Flexural Strength @ Maximum	7,300	psi	ASTM D790
Flexural Modulus	230,000	psi	ASTM D790
Notched Izod Impact (73°F)	2.0	ft-lb/in notch	ASTM D256
Rockwell Hardness	49	M-scale	ASTM D785
Thermal			
HDT (0.455 MPa; annealed) ¹	154	°F	ASTM D648
Vicat Softening Point (50°C/hr; 10N)	172	°F	ASTM D1525
Optical			
Refractive Index (N _d @ 72°F)	1.49	-	ASTM D542
Luminous Transmittance (0.125 in/3.2 mm)	86	%	ASTM D1003
Haze (0.125 in/3.2 mm)	<5	%	ASTM D1003
Classification			
ASTM Classification	PMMA 0231V1	-	ASTM D788
USDA BioPreferred® Certification	Yes	-	-

Data given are average values and should not be used for specification purposes.
¹ Annealing cycle: 4hrs @ 131°F

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