

# Magic Metal Material Data Sheet

Physical	Test Method	Units	Typical Values
Specific Gravity	D-792	---	1.20
Area Factor	D-570	ft <sup>2</sup> /lb/mil	160
Water Absorption	D-570	%	0.32 equilibrium
Rockwell Hardness	D-785	(R Scale)	118
Pencil Hardness	D-3363	Scratch Hardness	B

Optical	Test Method	Units	Typical Values
Light Transmission	D-1003	%	88-91
Haze	D-1003	%	0.5(CG only)
Yellowness Index	D-1925	---	<1.0
Refractive Index	D-542	N <sub>D</sub>	1.586
Taber Abrasion Resistance Δ Haze	D-1044	%	45

Mechanical	Test Method	Units	Typical Values
Tensile Strength Yield	D-882	psi	8,700
Impact Strength	Gardener	in-lb	120-30 mil film
Burst Strength	D-774	Mullen, psi	40-45 @ 1 mil
Fold Endurance	M.I.T.	Double Folds	200 @ 10 mil

Thermal	Test Method	Units	Typical Values
Tensile Heat Distortion	D-1637	°F	302° @ 50 psi
Deflection Temperature	D-648	°F	288° @ 264 psi
Thermal Conductivity	C-177	Btu/hr/ft <sup>2</sup> /°F/in	1.35
Coefficient of Thermal Expansion	D-696	in/in/°F	38x10 <sup>-6</sup>
Brittleness Temperature	D-746	°F	-211
Vicat Softening Temperature	D-1525	°F	305

Electrical	Test Method	Units	Typical Values
Dielectric Strength 72°F in oil	D-149 short time	V/mil	1,700 10mil film
Volume Resistivity	D-257	ohm-cm	1017
Surface Resistivity	D-257	ohm-sq	1015

Flammability	Test Method	Units	Typical Values
Class A	Commercial Testing Company	---	NFPA 286 ASTM E84

Magic Metal is a registered product of Creative Nightclubs, LLC for more information, contact the customer service dept. phone (321) 806-3506 fax (321) 806-3506 877-657-7223 info@liquidbartops.com