

# EVOSTONE

## MODIFIED ACRYLIC PERFORMANCE PROPERTIES



PROPERTIES	TEST	EQUIVALENT TEST	EVOSTONE RESULT
Density and Specific Gravity	JC/T 908 2013 / ASTM D972		1.6-1.75/cm <sup>3</sup>
Barcol Hardness	JC/T 908 2013 / ASTM D2583		56
Tensile Strength, Elastic Modulus	JCT / 908 2013 / ASTM D638		40.228 Mpa / 11042.28 Mpa
Flexural Strength and Flexural Modulus	JCT / 908 2013 / ASTM D790		61.532 Mpa / 11042.28 Mpa
Boiling Water Resistance	JCT / 908 2013 / NEMA LD 3-2005		No change.
High Temperature Resistance	JCT / 908 2013 / Heat Pan Test		No effect (Tested at 185°C).
Chemical Resistance	JCT / 908 2013 / ISO 19712 -2		No obvious change in surface.
Resistance from cigarette burn			No effect.
Flame retardant (oxygen index)	JCT / 908 2013 ≥35		38
Ball impact resistance	JCT / 908 2013 - No crevice after 255g steel ball shall be dropped from a height of 610mm.		No failure at height of 610mm.
Water Absorption	JC/T 908 2013		0.04%
Coefficient of Linear Thermal Expansion	JC/T 908 2013 / ASTM 696		≤4.0 x 10 <sup>5</sup> / °C
Resistance to marking by cold liquids	JC/T 908 2013		Rating: 5 (No visible change).
Heat Test in Kitchen Top	JC/T 908 2013		No visible damage or crack.
Flexural Modulus	JCT / 908 2013 ≥6500		7066.16
UV Resistance	JC/T 908 2013		No change.
Radioactivity	JC/T 908 2013 Internal Exposure Index ≥1.0		0 (+)
Radioactivity	JC/T 908 2013 Internal Exposure Index ≥1.3		0 (+)
Water Resistance	JC/T 908 2013 / ISO 19712-2		No surface rupture, cracks, bubbles and other abnormalities.

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