



MODIFIED ACRYLIC PERFORMANCE PROPERTIES

PROPERTIES	TEST	EQUIVALENT TEST	EVOSTONE RESULT
Density and specific gravity	JC/T 908 2013 / ASTM D972		1.6-1.75g/cm ³
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 form cigarette burn			No Effect
Flame retardent (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 ⁵ / °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	JC/T 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 External 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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