

Gemstone - Performance Properties

Test Results				
TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
Specific Gravity((23/23) °C)(Method A)	–	–	1.93	ASTM D792–20
Water Absorption(24 h Immersion)	%	–	0.01	ASTM D570–22
Barcol Hardness	–	–	63	Client Provided Test Method(ASTM D2583–13a)
Rockwell Hardness(HRM)(Procedure A)	–	–	87	ASTM D785–22
Izod Impact Strength(Method A)	J/m	–	19	ASTM D256–23e1
Tensile Strength(****)	MPa	–	30.8	ASTM D638–22
Tensile Modulus of Elasticity(****)	GPa	–	10.8	ASTM D638–22
Flexural Strength(*****)	MPa	–	51.6	ASTM D790–17
Flexural Modulus of Elasticity(*****)	GPa	–	13.0	ASTM D790–17
Appearance(Crack) after Heat Resistance[(180 ± 2) °C × 20 min]	–	–	No Defects	By the Client
Appearance(Crack) after Hot Water Resistance	–	–	No Defects	By the Client
Temperature Under Flexural Load(Method B, 1.82 MPa)	°C	–	80	ASTM D648–18
Accelerated Weathering Test(***)	–	–	–	KS M ISO 4892–2 : 2013
– Appearance(****)	–	–	No Defects	applied KS M ISO 4892–2 : 2013
DEHP	%	–	Not detected	applied US EPA 8061A : 1996 (GC/MS)
DBP	%	–	Not detected	applied US EPA 8061A : 1996 (GC/MS)
BBP	%	–	Not detected	applied US EPA 8061A : 1996 (GC/MS)

This information is based on technical data provided to Gemstone solid surface Pty Ltd believe to be reliable and is intended for use by persons having technical skill and at their own discretion. Gemstone can not and does not warrant that this information is absolutely current or accurate. Every effort is made to ensure that it is kept as current and accurate as possible. As conditions of use are outside of Gemstone's control, Gemstone makes no representations or warranties, express or implied, with respect to the information, or any part thereof, including any warranties of title, non-infringement of copyright or patent rights to others, merchantability, or fitness or sustainability for any purpose and assumes no liability or responsibility from the accuracy, completeness, or usefulness of any information. The information should not be used to create specifications, designs, or installation guidelines. The person responsible for the use and handling of the product are responsible for ensuring the design, fabrication, or installation methods and process present no health or safety hazards. Gemstone reserves the right to make changes to this information and to this disclaimer. Gemstone have no liability for the use of or results obtained from such information, whether or not based on Gemstone's negligence. Gemstone shall not be liable for any damages, including claims relating to the specification, design, installation or combination of this specific product with any of her products, and special, direct, indirect or consequential damages. Gemstone encourages you to review this information and its disclaimer. Gemstone also asks you to periodically contact Gemstone for updates and changes to this information and its disclaimer via its website www.gss.com.au