

STARON®

The information contained herein is provided by LOTTE ADVANCED MATERIALS and its subsidiaries and affiliates (collectively referred to as "LOTTE ADVANCED MATERIALS") for information purposes only and should be used by individuals with technical experience and knowledge in the area. LOTTE ADVANCED MATERIALS does not make any representation or warranties of the usefulness or expected result of the information, and does not assume any responsibility whatsoever related to the use of the information. Exclusion of the implied warranties may not apply in certain jurisdictions.

PROPERTIES	TYPICAL RESULTS	UNIT	TYPICAL RESULTS (Staron -12mm)
Density	DIN ISO 1183	g/cm ³	1.74
Flexural modulus	DIN EN ISO 178	Mpa	9030
Flexural strength	DIN EN ISO 178	Mpa	64.5
Elongation at break	DIN EN ISO 178	%	0.83
Compressive strength	EN ISO 604	Mpa	181
Impact resistance (Spring force)	DIN EN 438-2	N	>25
Impact resistance (Height)	DIN EN 438-2	cm	180
Surface hardness(Moh's index)	DIN EN 101		2-3
Abrasion behavior (Lost weight)	ISO 4586 p6	g	0.56
	ISO 4586 p6	%	0.26
Anti-slip properties with 100µm	DIN 51130:2009-5		R9
Anti-slip properties with 120µm	DIN 51130:2009-5		R9
Anti-slip properties with 150µm	DIN 51130:2009-5		R9
Light fastness	DIN EN 105-B02	Blue wool scale	> 6
Electrostatic surface resistance	EN 61340-4-1	Ω	>1x10 ¹²
Electrostatic surface resistivity	EN 61340-5-1	Ω	960x10 ⁹
Dimensions stability at 20°C	Dimension	mm	-0.02
	Gross weight	%	-0.02
Thermal conductivity	DIN EN 12664	W/(m.K)	0.53 ~ 0.57
Thermal resistance	DIN EN 12664	m ² .K/W	0.083 ~ 0.092
Thermal expansion	ASTM D 696	mm/mm°C	3.6 * 10 ⁻⁵
Fungal and Bacterial resistance	ASTM G 21, G22	-	No growth
Euroclass for reaction to fire	EN 13501-1	-	B-s1 d0
Fire properties (British)	BS 476 part 6 & 7	-	class 0
Fire properties (Germany)	DIN 4102-1	-	B1
Fire properties (France)	NF P 92-501	-	M2

This Technical Bulletin is intended to provide guidelines for optimal fabrication, installation, and performance of LOTTE ADVANCED MATERIALS products mentioned. Though the information contained herein is deemed reliable, none of the contents--including but not limited to the instructions, techniques, graphics, and recommendations--is to be understood as implying legal liability of fitness for a specific purpose, any other type of warranty, or being complete or absolute in its range and nature of information.

Depending on the user's particular application, all necessary measures must be taken to verify and test the adequacy for such needs or application. Any information or recommendation herein is strictly for purposes of reference and as such, LOTTE ADVANCED MATERIALS assumes no responsibility for its suitability or accuracy or the use of such information for products other than LOTTE ADVANCED MATERIALS Staron® solid surfaces & Radianz® quartz surfaces.