

# Testing

## Technical data of DEBO® FireX

Properties	Qualification	Test Method	Result
Density (g/cm <sup>3</sup> )	/	GB/T17657-2013	1.71
Hame retardant level	A2	GB20286-2006	A2
Resistance to boilded water	Mass increase% ≤10% Thickness increase% ≤12% Appearance not less than 4 grade	GB/T 17657-2013 4.50	10 0.3 5 grade no change
High temperature resistance (120°C, 2.5h)	No crack on surface	GB/T 17657-2013 4.29	No crack on surface
Resistance to dry heat	Appearance not less than 3 grade	GB/T 17657-2013 4.46	5 grade no change
Resistance to Impact by large diameter ball	Diameter of dent mm ≤10	GB/T 17657-2013 4.51	6.7 no damage on surface
Humidity resistance	≤2.0	GB/T 17657-2013 4.14	1.54 no change on surface
Stain resistance	Not less than 4 grade	GB/T 17657-2013 4.40	5 grade no change
Surface resistance to cracking	Not less than 4 grade	GB/T 17657-2013 4.36	5 grade no crack
Scratch resistance	≥1.5N	GB/T 17657-2013 4.39	IN no more than 90% continuous Scratches on surface, no damage on surface decorafive pallem
Wear resistonce (r)	≥1000	GB/T 17657-2013 4.42	1780
Dimnsional change (%)	Machine direction ≤1.05 Cross-machine direction ≤0.6	GB/T 17657-2013 4.33	0.03 0.04
Formaldehyde emission (mg/l)	≤1.5	GB/T 17657-2013 4.59	No detected
Internal radiation index (Iro)	≤1.0	GB6566-2010	<0.1
External rodiation exposure index (Lyc)	≤1.3	GB6566-2010	<0.1
Heavy metol (mg/m <sup>2</sup> )	Dissoluble lead ≤20 Dissoluble cadmium ≤20	GB18586-2001 5.4	18 No detected
Volatile emission (g/m <sup>2</sup> )	≤10	GB18586-2001 5.4	9
Inhibition rate of staphylococcus auteus (%)	≥90	GB19877.1-2005	96
Inhibition rate of escherichia coli (%)	≥90	GB19877.1-2005	98
Inhibition rate of composite molds (%)	≥90	GB19877.1-2005	95

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