

List of test standards and deviations

Test Type	Specification
Water Absorption	ISO 62:2008
Tensile Properties	BS EN ISO 527-2:2012
Flexural Strength	BS EN ISO 178:2010
Temperature of Deflection Under Load	BS EN ISO 75-2:2013 at 1.80MPa and 0.45MPa
Shore Hardness - Cast	ISO 868
Density	ASTM D792-13
Compressive Strength	BS EN ISO 604:2003

List of test standards and deviations

Property	Units	Test Method	Results		
			10mm	19mm	19mm plus
Tensile Strength	N/mm ²	BS EN ISO 527-2	4.33	3.47	4.34
Tensile Secant Modulus at 0.25% Strain	N/mm ²	BS EN ISO 527-2	283.80	263.70	278.90
Tensile Secant Modulus at 0.5% Strain	N/mm ²	BS EN ISO 527-2	246.53	229.69	242.93
Elongation at maximum load	%	BS EN ISO 527-2	7.13	4.38	6.72
Flexural Strength	N/mm ²	BS EN ISO 178	11.0	8.3	10.0
Flexural Modulus	N/mm ²	BS EN ISO 178	361.94	369.02	333.34
Compressive Strength	N/mm ²	BS EN ISO 604	2.2	2.4	3.1
Temperature of Deflection Under Load 1.8MPa Loading	°C	BS EN ISO 75-2	35.6	N/A	N/A
Temperature of Deflection Under Load 0.45MPa Loading	°C	BS EN ISO 75-2	54.2	N/A	N/A
Shore Hardness	N/A	ISO 868	56.5	59.8	58
Water Absorption	mg	ISO 62	490	385	659.4
Water Swell	%	N/A	0.05	0.1	0.07
Density	g/cm ³	ASTM D792	0.5407	0.492	0.6503