

Smartcore Technical Data Sheet

Item	EN Norms	Test Requirement	ASTM Norms	Result	Verdict	Remark
Thickness		5.0MM	ASTM F386-11	Nominal:5.01mm Measured:5.0mm	Pass	Requirement is cited from ASTM F1700-13a
Wear Resistance			ASTM D4060-14	Type of wheels:CS-17 Vertical force used: 1000g Revolutions: 1000r		
Static coefficient friction			ASTM C1028-07e1	Dry: 0.87 Wet: 0.69		
Castor Chair Test			NALFA LF 01-2011 section 3.9	After 25,000 revolutions No		
Resistant to impact			ASTM F1265-03(R2013)	Steel cylinder weight:158g Steel cylinder		
Size		Nominal Length:	ASTM F2055-10	± 0.010 in./ ± 0.4 mm (305mm)	Pass	Requirement is cited from ASTM F1700-13a
Squareness		Squareness: Long edge: Max.0.10mm/1219mm Short edge: Max.0.03mm/225mm	ASTM F2055-10	Maximum 0.010in.(0.25mm)	Pass	Requirement is cited from ASTM F1700-13a Table 2.
Resistance to Chemical		See Appendix B for details	ASTM F925-13	No more than a slight change in surface dulling, surface attack or staining	Pass	Requirement is cited from ASTM F1700-13a Table 2.
Resistant to Heat		$\Delta E^*=0.34$	ASTM F1514-13	ΔE^* shall not greater than 8.0 after 7 days exposure to 70°C	Pass	Requirement is cited from ASTM F1700-13a Table 2.
Resistant to Light		$\Delta E^*=1.61$	ASTM F1515-13	ΔE^* shall not greater than 8.0 after 300h exposure	Pass	Requirement is cited from ASTM F1700-13a Table 2.
Dimensional Stability		MD Max: -0.37mm/178mm CMD Max: -0.32mm/178mm	ASTM F2199-09 modified			The test temperature was 70°C specified by the applicant.
Residual Indentation		Average: 3.7% Max: 4.4%	ASTM F1914-11	Average \leq 8% Max \leq 100%	Pass	Requirement is cited from ASTM F1700-13a Table 2.
Static load		Average: 0.01mm	ASTM F970-07(R2011)			