



PremierCap® 1650

Description PremierCap® 1650 is a next-generation high gloss, coextruded TPO sheet system over a standard melt strength core. This product is designed to offer a weatherable cap that provides enhanced scratch & mar resistance over a cost-effective substrate, providing enhanced surface durability with improved economics.

Applications Exterior components, industrial covers, housings, claddings, shrouds

PROPERTY	TYPICAL VALUE ¹	UNITS	TEST METHOD
Specific Gravity	1.07		ISO 1183
Gloss, 60° (smooth, post-formed, male tooling)	85 – 90	%	ASTM 523
Crock Mar Resistance (Retained gloss at 60° observer)	75 - 80	%	PMC Method
Shrink Rate	0.8 – 1.0	%	ISO 294-4
Flexural Modulus	181,250 1,250	psi MPa	ASTM D790
Tensile Strength at Yield	2,219 15.3	psi MPa	ASTM D638
Gardner Impact at 32°F (0°C) at -22°F (-30°C)	205 (22.9) 158 (17.6)	in*lbs (Joules)	ASTM D5420
Multi-Axial Impact at 32°F (0°C) at -5°F (-15°C) at -22°F (-30°C)	28.2, 100% ductile 41.0, 100% ductile 18.7, 0% ductile	Joules	ASTM D3762
HDT at 66 psi (0.45 MPa) at 264 psi (1.45 MPa)	189 (87) 118 (48)	°F (°C)	ASTM D648
CLTE (-30°C to 80°C)	4.4 x 10 ⁻⁵ 8.0 x 10 ⁻⁵	in/in/°F mm/mm/°C	ISO 11359

¹ Property values tested on coextruded sheet, 0.125" thick, 10% cap layer, 30% regrind

NOTE: Data values are typical properties and are not to be construed as specifications. Users should confirm results by their own tests and evaluation methods. SIMONA PMC makes no warranties, expressed or implied, concerning the suitability of use. No freedom from infringement of any patent of others is to be inferred. SIMONA PMC reserves the right to make additions, deletions, or modifications to this information at any time without prior notification.