



TPO-Polyester Reinforced Data-Sheet

Technical features (tolerances as per EN 13956 and/or UEAtc Directives)				
Features	EN Standards	U.M.	Values	
Standard thickness (-5/+10%)	1849-2	Mm	1.2	1.5 1.8 2.0
SRI-Solar Reflectance Index	ASTM Standard E1980	%	102 (Reflecta White version)	
Tensile properties				
Tensile strength	12311-2	N/5cm	1100	
Elongation at break	12311-2	%	25	
Dimensional stability	1107-2	%	≤ 0.5	
Cold flexibility	495/5	°C	≤ -40 (not tested at lower temperatures)	
Tear resistance L/T	12310/1	N	550/650	
Water vapour permeability (resistance factor μ)	1931		50.000	
Resistance to static loading	12730/B	Kg	≤ 25	
Resistance to impact	12691/B	mm	≤ 1200	
Hail resistance	13583	m/s	≤ 30 (Not tested at higher speeds)	
Water tightness (60 kPa)	1928		Absolute	
Joint strength				
Tensile strength	12317-2	N/cm	Compliant (specimen falls outside bond area)	
Peeling	12317-2	N/cm	≤ 58	
Durability				
Resistance to artificial UV light	1297-5000 h		No surface damages or significant changes in cold flexibility as per EN 495/5	
Heat aging in area				
Change in tensile strength	12311-2	Δ %	-5	
Change in elongation at break	12311-2	Δ %	-5	
Wind load resistance (wind suction test) (UEAtc)				
Mechanically retained system	Pa		≤6000	
Reaction to fire	13501-1		Class E	
Behaviour to external fire	13501-5		Froof	
Resistance to algae and microorganisms	ISO 846 Level 2		Compliant	
Root resistance	13948		Passes the test	

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