



TPO-Glass Fiber 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 L/T	12311-2	N50 mm	600/550	650/600	750/750	800/800
Elongation at break L/T	12311-2	%	700/700			
Dimensional stability	1107-2	%	≤ 0.1			
Cold flexibility	495/5	°C	≤ -40 (not tested at lower temperatures)			
Tear resistance L/T	12310/1	N	390/290	450/400	500/450	600/550
Water vapour permeability (resistance factor μ)	1931		50.000			
Resistance to static loading	12730/B	Kg	≤ 25			
Resistance to impact	12691/B	mm	≤ 1000			
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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