

# Vizilon® Thermoplastic Composite Sheet

## Vizilon® SB75G1-Series

Vizilon® SB75G1-Series is a heat-stabilized, 2-2 twill-weave, glass fabric-reinforced, polyamide-based thermoplastic composite sheet, available in widths up to 1,440 mm. It is optimized for heat-aging resistance and overmolding adhesion.

Vizilon® SB75G1-Series is suitable for structural parts where there is a need for both lightweighting and functional integration.

Mechanical properties were measured on 1.6 mm thick test coupons cut from original sheets.

Please note that mechanical properties in this data sheet are indicative of the product in original sheet form. Any subsequent processes applied to the sheet product may change its properties.

Property	Test method	Units	Warp direction	Weft direction
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### Vizilon® SB75G1-Series: Reinforcement

Fiber	-	-	Roving glass	
Fabric	-	-	2-2 twill-weave	
Warp to weft ratio	-	%	50	50
Resin composition	-	-	PA-GF75	

### Vizilon® SB75G1-Series: Sheet

Thickness available	-	mm	0.4 / 0.8 / 1.2 / 1.6 / 2.0 / 2.4			
Fiber mass fraction ( $M_f$ )	-	%	75			
Fiber volume fraction ( $V_f$ )	-	%	57			
Density	ISO 1183	g/cm <sup>3</sup>	1.98			
Part marking code	ISO 11469	-	›PA-GF75‹			

### Vizilon® SB75G1-Series: Thermal

Melting temperature	ISO 11357-1/-3	° C	260			
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### Vizilon® SB75G1-Series: Mechanical

			DAM	50% RH	DAM	50% RH
Tensile modulus, 23° C	ISO 527-4	GPa	29	24	27	25
Tensile stress at break, 23° C	ISO 527-4	MPa	491	399	504	411
Tensile strain at break, 23° C	ISO 527-4	%	2.2	1.8	2.2	1.8



The information provided in this data sheet corresponds to our knowledge on the subject at the date of its publication. This information may be subject to revision as new knowledge and experience become available. The data provided fall within the normal range of product properties and relate only to the specific material designated; these data may not be valid for such material used in combination with any other materials, additives or pigments or in any process, unless expressly indicated otherwise.

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