FAÇADE CREATIONS

Technical Specification Sheets

T: +44 (0) 116 289 3343 E: info@facadecreations.co.uk W: www.facadecreations.co.uk
Registered Office Address: 124 City Road, London, England, EC1V 2NX. Registered in England, Company Number: 16267073

Chemical Designation
PPS (Polyphenylensulfide)

Colour
natural

Density
1.9 g/cm^3

Fillers
glass fibres

Main features
- excellent chemical resistance
- electrically insulating
- inherent flame resistance
- very good mechanical strength

Target Industries
- automotive industry
- mechanical engineering
- oil and gas industry
- safety engineering
- sporting goods

The material is in the phase of further development. The characteristic values of this product may change.

General material information	*parameter*	*value*	*unit*	*norm*		*comment*
Fibre type		E glass		-		
Fibre architecture		style 7628		-		
Fibre areal weight		203	g/m²	-		
Fibre volume content		50	%	-		
Resin weight content		34.9	%	-		
Areal weight finished product		312	g/m²	-		
Material widths		1270	mm	-		
ply thickness (consolidated)		0.16	mm	-		
Mechanical properties	***parameter***	***value***	***unit***	***norm***		***comment***
Tensile strength		375	MPa	ISO 527-4	1)	(1) measured on pressed plate (2) measured on pressed plate (3) measured on pressed plate (4) measured on pressed plate (5) measured on pressed plate (6) measured on pressed plate
Modulus of elasticity (tensile test)		23000	MPa	ISO 527-4	2)	
Flexural strength		500	MPa	ISO 14125	3)	
Modulus of elasticity (flexural test)		21000	MPa	ISO 14125	4)	
Compression strength		400	MPa	ISO 14126	5)	
Compression modulus		26000	MPa	ISO 14126	6)	
Thermal properties	***parameter***	***value***	***unit***	***norm***		***comment***
Glass transition temperature		90	°C	-		(1) approximate value
Melting temperature		285	°C	-		
Service temperature	short term	260	°C	-		
Service temperature	long term	230	°C	-		
Thermal expansion (CLTE)	in 0° and 90° direction	10	10^{-6} K^{-1}	-	1)	
Predrying	***parameter***	***value***	***unit***	***norm***		***comment***
Drying temperature		150	°C	-		
Drying time		2-3	h	-		