

PPS GF SL
TECHNICAL DATA SHEET



FULL NAME: POLYPHENYLENE SULFIDE FILLED GLASS FIBER AND SOLID LUBRICANT

MECHANICAL PROPERTIES	TEST METHOD	UNIT	CONDITION OF SPECIMEN	GUIDELINE VALUE
HARDNESS	ASTM D785	-	-	84
TENSILE STRENGTH	ASTM D638	MPA	-	75.2
TENSILE STRENGTH AT 150°C (300°F)	ASTM D638	MPA	-	3.45
TENSILE STRENGTH AT 65°C (150°F)	ASTM D638	MPA	-	55.2
ELONGATION AT BREAK	ASTM D638	%	-	4.0
TENSILE MODULUS	ASTM D638	GPA	-	3.72
FLEXURAL STRENGTH	ASTM D790	MPA	-	72.4
FLEXURAL MODULUS	ASTM D790	GPA	-	3.69
COMPRESSIVE STRENGTH	ASTM D695	MPA	-	107
COMPRESSIVE MODULUS	ASTM D695	GPA	-	2.36
IZOD IMPACT NOTCHED	ASTM D256 TYPE A	J/CM	-	0.747
COEFFICIENT OF FRICTION DYNAMIC	QTM55007	-	-	0.20
K WEAR FACTOR	QTM 55010	mm ³ /N-M	-	125 x 10 ⁻⁸
LIMITING PRESSURE VELOCITY	QTM 55007	MPa-m/sec	-	0.307

THERMAL PROPERTIES				
CTE LINEAR	ASTM E831	µm/m-°C	-	59.4
THERMAL CONDUCTIVITY	ASTM F433	W/M-K	-	0.303
MELTING POINT	ASTM D3418	°C	-	280
MAXIMUM SERVICE TEMPERATURE	LONG TERM	°C	-	221
DEFLECTION TEMPERATURE AT 1.8 MPA	ASTM D648	°C	-	116
FLAMMABILITY: UL 94	V-0	-	-	ESTIMATED RATING

ELECTRICAL PROPERTIES

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SURFACE RESISTIVITY	EOS/ESD S11.11	OHM	-	$\geq 1.00e+13$
DIELECTRIC STRENGTH	ASTM D149	KV/MM	-	19.7

MISCELLANEOUS PROPERTIES				
SPECIFIC GRAVITY	ASTM D792	G/CC	-	1.43
WATER ABSORPTION	ASTM D570(2)	%	-	0.010
WATER ABSORPTION AT SATURATION	ASTM D570(2)	%	-	0.090

REV.	DATE	DESCRIPTION	MODIFIED PARAGRAPHS	WRITTEN BY	APPROVED BY
01	12/2020	LAYOUT UPDATE	//	M.	M.

THIS DATASHEET AND ALL PROPRIETIES INDICATED COME DIRECTLY FROM THE PRODUCER'S STUDIES AND TESTS. D.H. LAMINA S.R.L. DOES NOT PRODUCE THE MATERIAL.
 THE CONTENTS OF THIS DATASHEETS ARE MEANT TO GIVE AN OVERVIEW OF THE PRODUCT'S PROPRIETIES. IT REFLECTS OUR CURRENT KNOWLEDGE AND MAY NOT BE COMPLETE. THE VALUES SHOULD BE TAKEN AS GUIDE VALUES BECAUSE THEY ARE DEPENDENT ON SURROUNDING CONDITIONS AND MACHINING METHODS. THE VALUES ARE IN NO WAY A LEGALLY BINDING ASSURANCE OF THE PRODUCT'S PROPRIETIES OR ITS SUITABILITY FOR USE IN A SPECIFIC APPLICATION. ALL STATED VALUES ARE AVERAGE ESTABLISHED FROM MANY INDIVIDUAL TESTS. FOR SPECIFIC APPLICATIONS, WE RECOMMEND DETERMINING SUITABILITY BY MEANS A TRIAL.

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