

PA66 + MOS2
TECHNICAL DATA SHEET

FULL NAME: EXTRUDED POLYAMIDE 66 FILLED MOLYBDENUM DISULFIDE

PROPERTIES	TEST METHOD	UNIT	GUIDELINE VALUES
DENSITY	DIN EN ISO 1183-1	g/cm ³	1,15
WATER ABSORPTION 24H / 96H (23°C)	DIN EN ISO 62	%	0,2 / 0,4
FLAMMABILITY	DIN IEC 60695-11-10	UL 94	HB

MECHANICAL PROPERTIES			
MODULUS OF ELASTICITY (TENSILE TEST) 1MM/MIN ¹⁾	DIN EN ISO 527-2	MPA	3200
TENSILE STRENGTH 50MM/MIN	DIN EN ISO 527-2	MPA	84
TENSILE STRENGTH AT YIELD 50MM/MIN	DIN EN ISO 527-2	MPA	83
ELONGATION AT YIELD 50MM/MIN	DIN EN ISO 527-2	%	10
ELONGATION AT BREAK 50MM/MIN	DIN EN ISO 527-2	%	40
FLEXURAL STRENGTH 2MM/MIN, 10 N ²⁾	DIN EN ISO 178	MPA	114
MODULUS OF ELASTICITY (FLEXURAL TEST) 2 MM/MIN, 10 N	DIN EN ISO 178	MPA	3100
COMPRESSION STRENGTH 1% - 2% - 5% 5MM/MIN, 10 N ³⁾	EN ISO 604	MPA	20/38/86
COMPRESSION MODULUS 5MM/MIN, 10 N ⁴⁾	EN ISO 604	MPA	2700
IMPACT STRENGTH (CHARPY) MAX. 7,5 J ⁵⁾	DIN EN ISO 179-1EU	KJ/M ²	N.B.
NOTCHED IMPACT STRENGTH (CHARPY) MAX 7,5 J	DIN EN ISO 179-1EA	KJ/M ²	5
BALL INDENTATION HARDNESS ⁶⁾	ISO 2039-1	MPA	168

¹⁾ FOR TENSILE TEST SPECIMEN TYPE B. ²⁾ FOR FLEXURAL TEST: SUPPORT SPAN 64 MM, NORM SPECIMEN. ³⁾ SPECIMEN 10x10x10 MM. ⁴⁾ SPECIMEN 10x10x50 MM. ⁵⁾ FOR CHARPY TEST; SUPPORT SPAN 64MM, NORM SPECIMEN. ⁶⁾ SPECIMEN IN 4 MM THICKNESS.
 N.B. = NOT BROKEN

THERMAL PROPERTIES			
GLASS TRANSITION TEMPERATURE ¹⁾	DIN EN ISO 11357	°C	52
MELTING TEMPERATURE	DIN EN ISO 11357	°C	253
SERVICE TEMPERATURE SHORT TERM ²⁾		°C	170
SERVICE TEMPERATURE LONG TERM		°C	100
THERMAL EXPANSION (CLTE) 23-60° C – LONG.	DIN EN ISO 11359-1;2	10 ⁻⁵ K ⁻¹	10
THERMAL EXPANSION (CLTE) 23-100° C – LONG.	DIN EN ISO 11359-1;2	10 ⁻⁵ K ⁻¹	10

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SPECIFIC HEAT	ISO 22007-4:2008	J/(g*K)	1,5
THERMAL CONDUCTIVITY	ISO 22007-4:2008	W/(K*M)	0,36

¹⁾ FOUND IN PUBLIC SOURCES. ²⁾ FOUND IN PUBLIC SOURCES. INDIVIDUAL TESTING REGARDING APPLICATION CONDITIONS IS MANDATORY.

ELECTRICAL PROPERTIES

SURFACE RESISTIVITY ¹⁾ - SILVER ELECTRODE, 23°C, 12% R.H.	DIN IEC 60093	Ω	10 ¹⁴
VOLUME RESISTIVITY ²⁾ - SILVER ELECTRODE, 23°C, 12% R.H.	DIN IEC 60093	Ω *CM	10 ¹⁴
DIELECTRIC STRENGTH ³⁾ - 23°C, 50% R.H.	ISO 60243-1	KV/MM	35
RESISTANCE TO TRACKING (CTI) - PLATIN ELECTRODE, 23°C, 50% R.H., SOLVENT A	DIN EN 60112	V	600

¹⁾ ØCA. 50 MM, H=13 MM. ²⁾ (+) LIMITED RESISTANCE. ³⁾ CORRESPONDING MEANS O LISTING TO UL (YELLOW CARD). THE INFORMATION MIGHT BE TAKEN FROM RESIN. INDIVIDUAL TESTING REGARDING APPLICATION CONDITIONS IS MANDATORY

REV.	DATE	DESCRIPTION	MODIFIED PARAGRAPHS	WRITTEN BY	APPROVED BY
01	12/2020	LAYOUT UPDATE	//	602.271	601.271

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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