

**POMC**  
TECHNICAL DATA SHEET

**FULL NAME:** POLYOXYMETHYLENE COPOLYMER

MECHANICAL PROPERTIES	TEST METHOD	UNIT	CONDITION OF SPECIMEN	GUIDELINE VALUE
TENSILE STRENGTH AT BREAK	ISO 527	MPA	DRY	70
	ISO 527	MPA	MOIST	-
ELONGATION AT BREAK	ISO 527	%	DRY	40
	ISO 527	%	MOIST	-
MODULUS OF ELASTICITY IN TENSION	ISO 527	MPA	DRY	3000
	ISO 527	MPA	MOIST	-
CHARPY IMPACT STRENGTH	ISO 179/1EA	KJ/M <sup>2</sup>	DRY +23°C	NO BREAK
		KJ/M <sup>2</sup>	DRY -40°C	80
HARDNESS SHORE SCALE D	ISO 868		DRY	81
TIME YIELD LIMIT 1/1000	ISO 899	MPA	MOIST +23°C/50% RH	14
	ISO 899	MPA	DRY +100°C	-

THERMAL PROPERTIES				
HEAT DISTORTION TEMPERATURE	ISO 75	°C	DRY – METHOD A	110
	ISO 75	°C	DRY – METHOD B	160
MELTING POINT	ISO 3146	°C	METHOD A	164-168
TEP 20 000 HOURS (50% OF TENSILE STRENGTH) <sup>1)</sup>	IEC 216	°C	-	100
THERMAL COEFFICIENT OF LINEAR EXPANSION	DIN 53452	1/K•10 <sup>-5</sup>	DRY	11
SPECIFIC HEAT CAPACITY	IEC 1006	J/(G•K)	DRY	1,5

DIELECTRIC PROPERTIES				
DIELECTRIC CONSTANT	IEC 250	-	DRY - 1 MHz	3,8
	IEC 250	-	MOIST	-
DISSIPATION FACTOR TAN	IEC 250	-	DRY - 1 MHz	0,024
	IEC 250	-	MOIST	-
DIELECTRIC STRENGTH	IEC 243	KV/MM	DRY	>20
	IEC 243	KW/MM	MOIST	-
VOLUME RESISTIVITY	IEC 93	Ω•CM	DRY	10 <sup>15</sup>
	IEC 93	Ω•CM	MOIST	-
RESISTANCE TO TRACKING	IEC 112	-	DRY/MOIST KA/KB METHOD	KB > 600
	IEC 112	-	DRY/MOIST KC METHOD	-

MISCELLANEOUS PROPERTIES				
MASS DENSITY - METHOD D, E	ISO 1183	G/CM <sup>3</sup>	DRY	1,41 – 1,43

**D.H. LAMINA S.R.L.**

Via Santellone, 29/A • 25080 Molinetto di Mazzano (BS) • Italy  
Tel. +39 (0) 30 21 20 448 • Fax +39 (0) 26 20 813  
Capitale Sociale € 46.800,00 Interamente versato  
C.F. e Nr. Iscr. Registro Imprese 01685670174  
P.I. IT01685670174 • REA BS-262362  
PEC: [dhlamina@pec.it](mailto:dhlamina@pec.it) • [dhlamina@dhlamina.it](mailto:dhlamina@dhlamina.it) • [www.dhlamina.it](http://www.dhlamina.it)

**POMC**  
**TECHNICAL DATA SHEET**



MOISTURE ABSORPTION AT 23°C, 50% RH - SATURATION	ISO 1110	%	-	0,2
WATER ABSORPTION – SATURATION	ISO 62	%	-	0,25
FIRE PERFORMANCE FLAMEABILITY ACC. VDE	VDE 0304	-	DRY	BH 3-25 MM/MIN
FIRE PERFORMANCE FLAMEABILITY UL STANDARD (THICKNESS OF SPECIMEN 1,6 MM)	UL 94	-	-	HB

REV.	DATE	DESCRIPTION	MODIFIED PARAGRAPHS	WRITTEN BY	APPROVED BY
01	12/2020	LAYOUT UPDATE	//	60137	60137

<sup>1)</sup> DATAS OF RESIN ONLY

<sup>2)</sup> MADE BY A PIN / ROTATING DISC TEST ACCORDING DIN-ISO 7148-2 UNDER FOLLOWING CONDITIONS:  $R_a = 0,35 - 0,45 \mu\text{M}$  (STEEL DISC),  $v = 0,3 \text{ M/S}$ ,  $P = 3 \text{ N/MM}^2$ , TIME  $T > 16 \text{ H}$

**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.

**D.H. LAMINA S.R.L.**

Via Santellone, 29/A • 25080 Molinetto di Mazzano (BS) • Italy  
 Tel. +39 (0) 30 21 20 448 • Fax +39 (0) 26 20 813  
 Capitale Sociale € 46.800,00 Interamente versato  
 C.F. e Nr. Iscr. Registro Imprese 01685670174  
 P.I. IT01685670174 • REA BS-262362  
 PEC: [dhlamina@pec.it](mailto:dhlamina@pec.it) • [dhlamina@dhlamina.it](mailto:dhlamina@dhlamina.it) • [www.dhlamina.it](http://www.dhlamina.it)