

# PC

## TECHNICAL DATA SHEET



**FULL NAME:** POLYCARBONATE

### MECHANICAL PROPERTIES

MODULUS OF ELASTICITY RESULTING FROM TENSILE TEST <sup>(1)</sup>	DIN EN ISO 527-2	MPa	2200
TENSILE STRENGTH	DIN EN ISO 527-2	MPa	69
YIELD STRESS	DIN EN ISO 527-2	MPa	69
ELONGATION AT YIELD	DIN EN ISO 527-2	%	6
ELONGATION AT BREAK	DIN EN ISO 527-2	%	90
FLEXURAL STRENGTH <sup>(2)</sup>	DIN EN ISO 178	MPa	97
MODULUS OF ELASTICITY RESULTING FROM BENDING TEST	DIN EN ISO 178	MPa	2300
COMPRESSIVE STRENGTH <sup>(3)</sup>	EN ISO 604	MPa	16/29/64
MODULUS OF ELASTICITY RESULTING FROM COMPRESSIVE TEST <sup>(4)</sup>	EN ISO 604	MPa	2000
IMPACT STRENGTH (CHARPY) <sup>(5)</sup>	DIN EN ISO 179-1EU	KJ/M <sup>2</sup>	N.B.
NOTCHED IMPACT STRENGTH (CHARPY)	DIN EN ISO 179-1EA	KJ/M <sup>2</sup>	14
BALL INDENTATION HARDNESS <sup>(6)</sup>	ISO 2039-1	MPa	128

### THERMAL PROPERTIES

GLASS TRANSITION TEMPERATURE <sup>(7)</sup>	DIN EN ISO 11357	°C	149
MELTING POINT <sup>(8)</sup>	DIN EN ISO 11357	°C	N.A.
SERVICE TEMPERATURE <sup>(9)</sup>	-	°C	140/120
THERMAL EXPANSION COEFFICIENT 23-60°C	DIN EN ISO 11359-1;2	10 <sup>-5</sup> K <sup>-1</sup>	8
THERMAL EXPANSION COEFFICIENT 23-100°C	DIN EN ISO 11359-1;2	10 <sup>-5</sup> K <sup>-1</sup>	8
SPECIFIC HEAT	ISO 22007-4:2008	J/(G*K)	1.3
THERMAL CONDUCTIVITY	ISO 22007-4:2008	W/(K*M)	0.25

### ELECTRICAL PROPERTIES

SURFACE RESISTIVITY	DIN IEC 60093	Ω	10 <sup>14</sup>
VOLUME RESISTIVITY	DIN IEC 60093	Ω*CM	10 <sup>14</sup>

#### 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)

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MISCELLANEOUS PROPERTIES	TEST METHOD	UNIT	GUIDELINE VALUES
WATER ABSORPTION 24H <sup>(10)</sup>	DIN EN ISO 62	%	0.03/0.06
FLAMMABILITY (UL94)	DIN IEC 60695-11-10	-	HB

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

- (1) FOR TENSILE TEST: SPECIMEN TYPE 1B  
(2) FOR FLEXURAL TEST: SUPPORT SPAN 64MM, NORM SPECIMEN.  
(3) SPECIMEN 10x10x10MM  
(4) SPECIMEN 10x10x50MM, MODULUS RANGE BETWEEN 0.5 AND 1% COMPRESSION.  
(5) FOR CHARPYTEST: SUPPORT SPAN 64MM, NORM SPECIMEN. N.B. = NOT BROKEN  
(6) SPECIMEN IN 4MM THICKNESS  
(7) FOUND IN PUBLIC SOURCES.  
(8) N.A. = NOT APPLICABLE  
(9) FOUND IN PUBLIC SOURCES. INDIVIDUAL TESTING REGARDING APPLICATION CONDITIONS IS MANDATORY  
(10) Ø CA. 50MM, H=13MM

**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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