

PMMA
TECHNICAL DATA SHEET

FULL NAME: POLY METHYL METHACRYLATE

| MECHANICAL PROPERTIES | | | |
|---|--------------------|-------------------|------|
| MODULUS OF ELASTICITY RESULTING FROM TENSILE TEST | DIN EN ISO 527-2 | MPA | 3300 |
| YIELD STRESS | DIN EN ISO 527-2 | MPA | 80 |
| ELONGATION AT BREAK | DIN EN ISO 527-2 | % | 5.5 |
| IMPACT STRENGTH (CHARPY) | DIN EN ISO 179-1EU | KJ/M ² | 15 |
| NOTCHED IMPACT STRENGTH (IZOD) | DIN EN ISO 180-1 A | KJ/M ² | 1.6 |
| FLEXURAL STRENGTH | DIN EN ISO 178 | MPA | 115 |
| COMPRESSION YIELD STRESS | DIN EN ISO 604 | MPA | 110 |
| BALL INDENTATION HARDNESS | ISO 2039-1 | MPA | 175 |

| THERMAL PROPERTIES | | | |
|---|-------------|----------------------------------|-------|
| GLASS TRANSITION TEMPERATURE | - | °C | - |
| DISTORTION TEMPERATURE HDT-A (1,8 MPA) | DIN ISO 75 | °C | 105 |
| DISTORTION TEMPERATURE HDT-B (0,46 MPA) | DIN ISO 75 | °C | 103 |
| MELTING POINT | - | °C | N.A. |
| SERVICE TEMPERATURE | - | °C | 85/80 |
| THERMAL EXPANSION COEFFICIENT 0-50°C LONG | DIN 53752-A | 10 ⁻⁵ K ⁻¹ | 7 |
| THERMAL CONDUCTIVITY | ISO 52612 | W/(K*M) | 0.19 |
| SPECIFIC HEAT | - | J/(G*K) | 1.47 |

| ELECTRICAL PROPERTIES | | | |
|-----------------------|--------------|-------|-------------------|
| SURFACE RESISTIVITY | DIN VDE 0303 | Ω | >10 ¹³ |
| VOLUME RESISTIVITY | DIN VDE 0303 | Ω | >10 ¹⁵ |
| DIELECTRIC RIGIDITY | DIN VDE 0303 | kV/MM | 30 |

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| MISCELLANEOUS PROPERTIES | TEST METHOD | UNIT | GUIDELINE VALUES |
|--------------------------|-------------|------|------------------|
| FLAMMABILITY (UL94) | DIN 4102 | - | B2 |
| REFRACTION INDEX | DIN ISO 489 | - | 1.491 |

| 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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