

PVDF
TECHNICAL DATA SHEET

FULL NAME: POLYVINYLIDENE FLUORIDE

| PROPERTIES | TEST METHOD | UNIT | GUIDELINE VALUES |
|--------------------------------------|-------------------|-------------------|------------------|
| DENSITY | DIN EN ISO 1183-1 | g/cm ³ | 1,78 |
| WATER ABSORPTION | DIN EN ISO 62 | % | < 0,4 |
| FLAMMABILITY (THICKNESS 3 MM / 6 MM) | UL 94 | | V0 |

| MECHANICAL PROPERTIES | | | |
|-------------------------------|----------------|-------------------|------|
| YIELD STRESS | DIN EN ISO 527 | MPA | 55 |
| ELONGATION AT BREAK | DIN EN ISO 527 | % | >30 |
| TENSILE MODULUS OF ELASTICITY | DIN EN ISO 527 | MPA | 2200 |
| NOTCHED IMPACT STRENGTH | DIN EN ISO 179 | KJ/M ² | 15 |
| SHORE HARDNESS | DIN EN ISO 868 | SCALE D | 77 |

| THERMAL PROPERTIES | | | |
|---|-------------------------|---------------------|-----------|
| MELTING TEMPERATURE | ISO 11357-3 | °C | 172 - 175 |
| THERMAL CONDUCTIVITY | DIN 52612-1 | W / (M * K) | 0,19 |
| THERMAL CAPACITY | DIN 52612 | KJ / (KG * K) | 1,20 |
| COEFFICIENT OF LINEAR THERMAL EXPANSION | DIN 53752 | 10 ⁻⁶ /K | 100 - 140 |
| SERVICE TEMPERATURE, LONG TERM | AVERAGE | °C | 0 - 140 |
| SERVICE TEMPERATURE, SHORT TERM (MAX) | AVERAGE | °C | 150 |
| VICAT SOFTENING TEMPERATURE | DIN EN ISO 306, VICAT B | °C | 140 |

| ELECTRICAL PROPERTIES | | | |
|--|------------------|--------|-------------------|
| DIELECTRIC CONSTANT | IEC 60250 | | 8,0 |
| DIELECTRIC DISSIPATION FACTOR (10 ⁶ Hz) | IEC 60250 | | 0,02 |
| VOLUME RESISTIVITY | DIN EN 62631-3-1 | Ω * CM | >10 ¹⁴ |
| SURFACE RESISTIVITY | DIN EN 62631-3-2 | Ω | <10 ¹⁴ |

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|----------------------------|-----------|---------------|
| COMPARATIVE TRACKING INDEX | IEC 60112 | 600 |
| DIELECTRIC STRENGTH | IEC 60243 | KV / MM 20 |

| REV. | DATE | DESCRIPTION | MODIFIED PARAGRAPHS | WRITTEN BY | APPROVED BY |
|------|---------|---------------|---------------------|------------|-------------|
| 01 | 12/2020 | LAYOUT UPDATE | // | 601.363 | 601.363 |

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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