

PEEK GF30

TECHNICAL DATA SHEET

FULL NAME: POLYETHER ETHER KETONE FILLED GLASS FIBRE 30%

| MECHANICAL PROPERTIES | TEST METHOD | UNIT | PARAMETER | GUIDELINE VALUES |
|---|--------------------|-------|--------------------------------|------------------|
| TENSILE STRENGTH | DIN EN ISO 527-2 | MPA | 5 MM/MIN | 113 |
| MODULUS OF ELASTICITY (TENSILE TEST) ⁽¹⁾ | DIN EN ISO 527-2 | MPA | 1 MM/MIN | 6300 |
| ELONGATION AT BREAK | DIN EN ISO 527-2 | % | 5 MM / MIN | 5 |
| COMPRESSION STRENGTH ⁽²⁾ | EN ISO 604 | MPA | 1% / 2% / 5% 5 MM/MIN, 10 N | 29/52/120 |
| IMPACT STRENGTH (CHARPY) ⁽³⁾ | DIN EN ISO 179-1EU | KJ/M2 | MAX 7,5 J | 52 |
| BALL INDENTATION HARDNESS ⁽⁴⁾ | ISO 2039-1 | MPA | - | 280 |

| THERMAL PROPERTIES | | | | |
|---|----------------------|----------------------------------|-------------------|------|
| GLASS TRANSITION TEMPERATURE ⁽⁵⁾ | DIN EN ISO 11357 | °C | - | 147 |
| MELTING TEMPERATURE | DIN 53765 | °C | - | 341 |
| SERVICE TEMPERATURE ⁽⁶⁾ | - | °C | SHORT TERM | 300 |
| SERVICE TEMPERATURE | - | °C | LONG TERM | 260 |
| THERMAL EXPANSION (CLTE) | DIN EN ISO 11359-1;2 | 10 ⁻⁵ K ⁻¹ | 23-60° C, LONG. | 4 |
| THERMAL EXPANSION (CLTE) | DIN EN ISO 11359-1;2 | 10 ⁻⁵ K ⁻¹ | 23-100°C, LONG. | 4 |
| THERMAL EXPANSION (CLTE) | DIN EN ISO 11359-1;2 | 10 ⁻⁵ K ⁻¹ | 100-150° C, LONG. | 5 |
| SPECIFIC HEAT | ISO 22007-4:2008 | J/(G*K) | - | 1,0 |
| THERMAL CONDUCTIVITY | ISO 22007-4:2008 | W/(K*M) | - | 0,35 |

| ELECTRICAL PROPERTIES | | | | |
|------------------------------------|---------------|-------|----------------|------------------|
| SURFACE RESISTIVITY | DIN IEC 60093 | Ω | - | 10 ¹⁴ |
| VOLUME RESISTIVITY | DIN IEC 60093 | Ω*CM | - | 10 ¹⁴ |
| DIELECTRIC STRENGTH ⁽⁶⁾ | ISO 60243-1 | KV/MM | 23°C, 50% R.H. | 36 |

| MISCELLANEOUS PROPERTIES – | | | | |
|---------------------------------|---------------|---|------------------|-------------|
| WATER ABSORPTION ⁽⁷⁾ | DIN EN ISO 62 | % | 24H / 96H (23°C) | 0,02 / 0,03 |

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|--|---------------------|-------------------|------------------|------|
| RESISTANCE TO HOT WATER / BASES ⁽⁸⁾ | - | - | - | + |
| RESISTANCE TO WEATHERING ⁽⁹⁾ | - | - | - | - |
| FLAMMABILITY (UL94) ⁽¹⁰⁾ | DIN IEC 60695-11-10 | - | CORRESPONDING TO | V0 |
| DENSITY | ISO 1183 | G/CM ³ | DRY | 1,53 |
| COLOR | - | | BEIGE OPAQUE | |

| REV. | DATE | DESCRIPTION | MODIFIED PARAGRAPHS | WRITTEN BY | APPROVED BY |
|------|---------|-------------|---------------------|------------|-------------|
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⁽¹⁾ FOR TENSILE TEST: SPECIMEN TYPE 1B

⁽²⁾ SPECIMEN 10X10X10MM

⁽³⁾ FOR CHARPY TEST: SUPPORT SPAN 64MM, NORM SPECIMEN.

⁽⁴⁾ SPECIMEN IN 4MM THICKNESS

⁽⁵⁾ FOUND IN PUBLIC SOURCES.

⁽⁶⁾ FOUND IN PUBLIC SOURCES. INDIVIDUAL TESTING REGARDING APPLICATION CONDITIONS IS MANDATORY.

⁽⁷⁾ SPECIMEN IN 1MM THICKNESS

⁽⁸⁾ Ø CA. 50MM, H=13MM

⁽⁹⁾ + GOOD RESISTANCE

⁽¹⁰⁾ - POOR RESISTANCE

⁽¹¹⁾ CORRESPONDING MEANS NO LISTING AT UL (YELLOW CARD). THE INFORMATION MIGHT BE TAKEN FROM RESIN, STOCK SHAPE OR ESTIMATION. INDIVIDUAL TESTING REGARDING APPLICATION CONDITIONS IS MANDATORY.

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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