

ENZINRON (PEEK)

| | METHOD | UNIT | VALUE |
|----------------------------------|----------------|------------------------|------------------|
| Mechanical Properties | | | |
| Specific gravity | ASTM D792 | g/cm ³ | 1.31 |
| Tensile yield strength | ASTM D638 | Mpa | 95 |
| Breaking elongation | ASTM D638 | % | 5 |
| Bending strength | ASTM 790 | Mpa | 150 |
| Flexural modulus | ASTM 790 | Mpa | 4100 |
| Shore hardness | ASTM D2240 | D | 99 |
| Impact strength | ASTM D256 | J/M | 165 |
| Thermal Properties | | | |
| Melting point | DSC | °C | 343 |
| Heat distortion temperature | ASTM D648 | °C | 152 |
| Operating temperature | - | °C | 250 |
| Maximum operating temperature | - | °C | 310 |
| Thermal conductivity | DIN 52612- 1 | W/(K-M) | 0.25 |
| Coefficient of linear thermal | ASTM D696 | 10 ⁻⁵ - 1/K | 5 |
| Electrical Properties | | | |
| Dielectric strength | ASTM D150 | KV-mm | 24 |
| Dielectric loss factor | ASTM D150 | - | 0.009 |
| Volume resistivity | ASTM D257 | Ω.cm | 10 ¹⁵ |
| Surface resistivity | ASTM D257 | Ω | 10 ¹⁶ |
| Dielectric constant | ASTM D149 | - | 3.2 |
| Chemical Properties | | | |
| Water absorption | 23°C 60%RH | % | 0.1 |
| Acid resistance | 23°C 60%RH | | + |
| Alkali resistance | | | + |
| Acid and alkali resistance | | | + |
| Resistance to sodium chlorate | | | + |
| Resistance to aromatic compounds | | | + |
| Resistance to ketone | 23°C 60%RH | | + |
| Resistance to hot water | 23°C 60%RH | | + |
| Others | | | |
| Flammability | UL 94 | | V-0 |
| Viscosity | - | | + |
| Non toxic | EEC 90/128 FDA | | + |

Remarks:

1. "+": positive "-": negative "0": depends.
2. All the parameters above are based on raw material but not finished products.