PEFLON

TECHNICAL DATA

https://peflon.com/
PEEK Resin PF-1GL45-H

Product Description: PEEK resin. Processing: injection molding, extrusion.

## Specifications

| Test Item | Test Standard | Test Condition | Unit | Typical Value |
|---|---|---|---|---|
| **Mechanical Properties** | | | | |
| Tensile Strength | ISO 527 | Yield, 23°C | MPa | 200 |
| Elongation at Break | ISO 527 | Break, 23°C | % | 3 |
| Flexural Strength | ISO 178 | Yield, 23°C | MPa | - |
| Flexural Modulus | ISO 178 | 23°C | GPa | 12 |
| Izod Impact Strength, Notched | ISO 180/A | Notched | kJ/m² | 11 |
| Molding Shrinkage, Flow Direction | ISO 294-4 | Flow Direction | % | - |
| Molding Shrinkage, Transverse Direction | ISO 294-4 | Transverse Direction | % | - |
| **Thermal Properties** | | | | |
| Melting Point | ISO 11357 | - | °C | 343 |
| Glass Transition Temperature | ISO 11357 | Onset | °C | 143 |
| Heat Deflection Temperature | ISO 75A-f | 1.8MPa | °C | - |
| **Flow Properties** | | | | |
| Melt Index | ISO 1133 | 380°C, 5 kg | g/10min | - |
| **Other Properties** | | | | |
| Density | ISO 1183 | 23°C | g/cm³ | 1.3 |
| Dielectric Strength | IEC 60243 | 2mm | kV/mm | - |
| Volume Resistivity | IEC 62631 | - | Ω·m | - |

## Processing Guidance

| Item | Unit | Recommended Value |
|---|---|---|
| Processing Method | - | injection molding, extrusion |
| Processing Temperature | °C | 380 ± 20 |
| Drying Condition | - | 150°C / 3 h or minimum 120°C / 6 h |
| Moisture Absorption | % | < 0.3 |

## Notes

Statement: This TDS is prepared according to internal testing standards and typical laboratory data. It does not constitute a warranty or guarantee for a specific application. Users should verify suitability before commercial use.


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