

SABIC Innovative Plastics LNP LUBRICOMP LCL33EXQ PEEK

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK)

Material Notes:

LNP* LUBRICOMP* LCL33EXQ is a compound based on Polyetheretherketone containing 15% Carbon Fiber, 15% PTFE. Added features of this material include: Wear Resistant, Easy Molding.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-LCL33EXQ-PEEK.php

| Physical Properties | Metric | English | Comments |
|------------------------|--|--|---|
| Specific Gravity | 1.45 g/cc | 1.45 g/cc | ASTM D792 |
| Melt Index of Compound | 30 g/10 min @Load 5.00 kg, Temperature 300 Â°C | 30 g/10 min @Load 11.0 lb, Temperature 572 Â°F | MVR [cm ³ /10 min]; ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------------|------------------------|--|-----------------------------------|
| Tensile Strength at Break | 181 MPa | 26300 psi | 5 mm/min; ISO 527 |
| | 185 MPa | 26800 psi | Type I, 5 mm/min; ASTM D638 |
| Elongation at Break | 1.6 % | 1.6 % | 5 mm/min; ISO 527 |
| | 1.8 % | 1.8 % | Type I, 5 mm/min; ASTM D638 |
| Tensile Modulus | 13.96 GPa | 2025 ksi | 1 mm/min; ISO 527 |
| | 16.0 GPa | 2320 ksi | 5 mm/min; ASTM D638 |
| Flexural Strength | 276 MPa | 40000 psi | ISO 178 |
| | 277 MPa | 40200 psi | 1.3 mm/min, 50 mm span; ASTM D790 |
| Flexural Modulus | 13.4 GPa | 1940 ksi | 1.3 mm/min, 50 mm span; ASTM D790 |
| | 13.53 GPa | 1962 ksi | 2 mm/min; ISO 178 |
| Poissons Ratio | 0.43 | 0.43 | ISO 527-1/2 |
| Izod Impact, Notched | 0.690 J/cm | 1.29 ft-lb/in | ASTM D256 |
| Izod Impact, Notched (ISO) | 5.00 kJ/m ² | 2.38 ft-lb/in ² | 80*10*4; ISO 180/1A |
| Coefficient of Friction, Dynamic | 0.37 | 0.37 | ASTM D3702 Modified |
| Coefficient of Friction, Static | 0.35 | 0.35 | ASTM D3702 Modified |
| | | 14.0 x 10 ⁻¹⁰ in ³ - | |

| K (wear) Factor Mechanical Properties | $28.2 \times 10^{-6} \text{ mm}^3/\text{N}\cdot\text{m}$ Metric | mm³/ft-lb-hr English | Washer: ASTM D3702 Modified Comments |
|--|---|--|---|
| Thermal Properties | Metric | English | Comments |
| Deflection Temperature at 1.8 MPa (264 psi) | 32.0 Å°C @Thickness 3.20 mm | 89.6 Å°F @Thickness 0.126 in | unannealed; ASTM D648 |

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