

Kolon KOCETAL[®] EL304 Toughened Grade Acetal Resin

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Impact Modified

Material Notes:

Flexible grade. Applications: Flexible products. Information provided by API-Kolon.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kolon-KOCETAL-EL304-Toughened-Grade-Acetal-Resin.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|--------------|--------------|-------------------|
| Specific Gravity | 1.36 g/cc | 1.36 g/cc | ASTM D792 |
| Moisture Absorption at Equilibrium | 0.25 % | 0.25 % | 60% RH; ASTM D570 |
| Linear Mold Shrinkage | 0.017 cm/cm | 0.017 in/in | ASTM D955 |
| Melt Flow | 9.0 g/10 min | 9.0 g/10 min | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|-----------|---------------|-----------|
| Hardness, Rockwell M | 76 | 76 | ASTM D785 |
| Tensile Strength | 43.0 MPa | 6240 psi | ASTM D638 |
| Elongation at Break | 85 % | 85 % | ASTM D638 |
| Flexural Strength | 60.0 MPa | 8700 psi | ASTM D790 |
| Flexural Modulus | 1.70 GPa | 247 ksi | ASTM D790 |
| Izod Impact, Notched | 1.10 J/cm | 2.06 ft-lb/in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|---|--|------------|
| CTE, linear | 130 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ | 72.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ | ASTM D696 |
| Melting Point | 166 $\text{Å}^\circ\text{C}$ | 331 $\text{Å}^\circ\text{F}$ | ASTM D1525 |
| Deflection Temperature at 0.46 MPa (66 psi) | 144 $\text{Å}^\circ\text{C}$ | 291 $\text{Å}^\circ\text{F}$ | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 82.0 $\text{Å}^\circ\text{C}$ | 180 $\text{Å}^\circ\text{F}$ | ASTM D648 |
| Flammability, UL94 | HB | HB | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------------|-----------------|-----------|
| Volume Resistivity | 1.00e+14 ohm-cm | 1.00e+14 ohm-cm | ASTM D257 |
| Surface Resistance | 1.00e+16 ohm | 1.00e+16 ohm | ASTM D257 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|------------------------------------|------------------------------------|-----------|
| Dielectric Strength | 19.0 kV/mm | 483 kV/in | ASTM D149 |
| Dissipation Factor | 0.0060 @Frequency 1.00e+6 Hz | 0.0060 @Frequency 1.00e+6 Hz | ASTM D150 |

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