# Kolon KOPELÂ® KP3372 General Purpose TPE Resin

**Category :** Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Elastomer, Melt-Processible Rubber

**Material Notes:**

KOPELÂ® is a thermoplastic polyester elastomer which is a new engineering rubber having combined properties of conventional rubber and thermoplastic. Its flexibility and elastic recovery are very similar to rubber, but its processability is much superior to rubber. While its flexibility and elastic recovery are similar to rubber, its mechanical properties-heat resistance, weather resistance and UV stability-are far greater than the performance of rubber.Excellent flexibility and creep resistance, good mechanical properties and heat stability, good chemical resistanceInformation provided by US distributor, API-Kolon.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Kolon-KOPEL-KP3372-General-Purpose-TPE-Resin.php

| Physical Properties | Metric | English | Comments |
|---|---|---|---|
| Density | 1.27 g/cc | 0.0459 lb/inÂ³ | DIN 53479; ASTM D792 |
| Water Absorption | 0.30 % | 0.30 % | DIN 53475; ASTM D570 |
| Linear Mold Shrinkage | 0.016 - 0.019 cm/cm | 0.016 - 0.019 in/in | ASTM D955 |
| Melt Flow | 17 g/10 min<br>@Temperature 230 Â°C | 17 g/10 min<br>@Temperature 446 Â°F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|---|---|---|---|
| Hardness, Shore D | 72 | 72 | DIN 53505; ASTM D2240 |
| Tensile Strength, Ultimate | 39.2 MPa | 5690 psi | DIN 53455; ASTM D638 |
| Elongation at Break | 400 % | 400 % | DIN 53455; ASTM D638 |
| Izod Impact, Notched | 0.539 J/cm | 1.01 ft-lb/in | Low Temp |
| | 2.55 J/cm | 4.78 ft-lb/in | DIN 53453; ASTM D256 |
| Taber Abrasion, mg/1000 Cycles | 10 | 10 | CS-17 WHEEL; ASTM D1044 |

| Thermal Properties | Metric | English | Comments |
|---|---|---|---|
| Deflection Temperature at 0.46 MPa (66 psi) | 148 Â°C | 298 Â°F | DIN 53461; ASTM D648 |
| Brittleness Temperature | <= -65.0 Â°C | <= -85.0 Â°F | Solenoid Brittle Point; ASTM D746 |
| Flammability, UL94 | HB | HB | |

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