

Kolon KOPELÂ® KP3755 Specialty 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 resistance. Information provided by US distributor, API-Kolon.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kolon-KOPEL-KP3755-Specialty-TPE-Resin.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	DIN 53479; ASTM D792
Water Absorption	0.50 %	0.50 %	DIN 53475; ASTM D570
Linear Mold Shrinkage	0.011 - 0.013 cm/cm	0.011 - 0.013 in/in	ASTM D955
Melt Flow	12 g/10 min @Temperature 230 Â°C	12 g/10 min @Temperature 446 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	55	55	DIN 53505; ASTM D2240
Tensile Strength, Ultimate	35.8 MPa	5190 psi	DIN 53455; ASTM D638
Elongation at Break	650 %	650 %	DIN 53455; ASTM D638
Flexural Yield Strength	172 MPa	24900 psi	DIN 53455; ASTM D790
Resilience	56	56	
Izod Impact, Notched	NB	NB	DIN 53453; ASTM D256
	NB	NB	Low Temp
Taber Abrasion, mg/1000 Cycles	5.0	5.0	CS-17 WHEEL; ASTM D1044

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	100 Â°C	212 Â°F	DIN 53461; ASTM D648
Brittleness Temperature	<= -70.0 Â°C	<= -94.0 Â°F	Solenoid Brittle Point; ASTM D746
Flammability, UL94	HB	HB	measured in KOLON R&D Center

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