

## Kolon KOPELÂ® KP3355 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 resistance. Information provided by US distributor, API-Kolon.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Kolon-KOPEL-KP3355-General-Purpose-TPE-Resin.php](http://www.lookpolymers.com/polymer_Kolon-KOPEL-KP3355-General-Purpose-TPE-Resin.php)

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in <sup>3</sup>	DIN 53479; ASTM D792
Water Absorption	0.50 %	0.50 %	DIN 53475; ASTM D570
Linear Mold Shrinkage	0.011 - 0.012 cm/cm	0.011 - 0.012 in/in	ASTM D955
Melt Flow	18 g/10 min @Temperature 230 Â°C	18 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	35.3 MPa	5120 psi	DIN 53455; ASTM D638
Elongation at Break	650 %	650 %	DIN 53455; ASTM D638
Flexural Yield Strength	177 MPa	25600 psi	DIN 53455; ASTM D790
Resilience	50	50	
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)	102 Â°C	216 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	

## **Contact Songhan Plastic Technology Co.,Ltd.**

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