

## PolyOne OnFlex™ U 5370A-S0015 Thermoplastic Elastomer (TPE)

Category : Polymer , Thermoplastic , Elastomer, TPE

### Material Notes:

OnFlex™-U thermoplastic elastomer compounds are based on thermoplastic polyurethane elastomers (TPE-U). The OnFlex™-U 5300 series are based upon alloys of SEBS and TPU, combining the advantages of both raw materials, for example the good processability and soft haptic of a TPE-S with the excellent mechanical properties and abrasion resistance of a TPE-U. OnFlex™-U 5300 compounds are formulated to deliver very good scratch resistance, a wide hardness range and good chemical resistance. Properties are measured using injection molded plaques. Information provided by PolyOne

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-OnFlex-U-5370A-S0015-Thermoplastic-Elastomer-TPE.php](http://www.lookpolymers.com/polymer_PolyOne-OnFlex-U-5370A-S0015-Thermoplastic-Elastomer-TPE.php)

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in <sup>3</sup>	ISO 1183

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	70	70	ISO 868
Tensile Strength at Break	25.0 MPa	3630 psi	ISO 37
Tensile Stress	4.00 MPa	580 psi	ISO 37
	@Strain 100 %	@Strain 100 %	
	9.30 MPa	1350 psi	ISO 37
	@Strain 300 %	@Strain 300 %	
Elongation at Break	520 %	520 %	ISO 37
Abrasion	57	57	[mm <sup>3</sup> ]; ISO 47469

Processing Properties	Metric	English	Comments
Melt Temperature	170 - 210 °C	338 - 410 °F	
Mold Temperature	30.0 - 60.0 °C	86.0 - 140 °F	
Drying Temperature	100 °C	212 °F	
Dry Time	2.00 hour	2.00 hour	

Descriptive Properties	Value	Comments
Features	Good Abrasion Resistance	
	Oil Resistant	

Descriptive Properties	Scratch Resistant Value	Comments
Forms	Pellets	
Generic Material	TPE	
Generic Material Type	Thermoplastic Polyurethane Elastomer (TPU)	
Generic Name	Thermoplastic Elastomer (TPE)	
Injection Rate	Slow	
Manufacturer / Supplier	GLS Thermoplastic Elastomers	
Processing Method	Extrusion	
	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
RoHS Compliance	RoHS Compliant	
Uses	Automotive Applications	
	Consumer Applications	
	General Purpose	
	Industrial Applications	
	Power/Other Tools	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China