

PolyOne OnFlex™ U 5370A-E0077 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-E0077-Thermoplastic-Elastomer-TPE.php

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in ³	ISO 1183

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	70	70	ISO 868
Tensile Strength at Break	17.7 MPa	2570 psi	Type 2, 200 mm/min Across Flow; ISO 37
	@Thickness 2.00 mm, Temperature 23.0 °C	@Thickness 0.0787 in, Temperature 73.4 °F	
Elongation at Break	17.7 MPa	2570 psi	Type 2, 200 mm/min; Flow; ISO 37
	@Thickness 2.00 mm, Temperature 23.0 °C	@Thickness 0.0787 in, Temperature 73.4 °F	
Elongation at Break	570 %	570 %	Type 2, 200 mm/min Across Flow; ISO 37
	@Thickness 2.00 mm, Temperature 23.0 °C	@Thickness 0.0787 in, Temperature 73.4 °F	
Tear Strength	580 %	580 %	Type 2, 200 mm/min; Flow; ISO 37
	@Thickness 2.00 mm, Temperature 23.0 °C	@Thickness 0.0787 in, Temperature 73.4 °F	
Tear Strength	47.0 kN/m	268 pli	Method A, Trouser, 500 mm/min Across Flow; ISO 34-1
	@Thickness 2.00 mm, Temperature 23.0 °C	@Thickness 0.0787 in, Temperature 73.4 °F	
Tear Strength	53.0 kN/m	302 pli	Method A, Trouser, 500 mm/min; Flow; ISO 34-1
	@Thickness 2.00 mm, Temperature 23.0 °C	@Thickness 0.0787 in, Temperature 73.4 °F	
Abrasion	35	35	[mm ³]; DIN 53516

Optical Properties	Metric	English	Comments
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Optical Properties	Metric	English	Comments ¹³
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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
Appearance	Matte Finish	
Features	Good Abrasion Resistance	
	Oil Resistant	
	Scratch Resistant	
Fogging	1.1 mg	DIN 75201B; 100°C
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	
Odor rating	2.1	VDA 270
Processing Method	Calendering	
	Film Extrusion	
	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	

Descriptive Properties	Value Compliant	Comments
Uses	Automotive Applications	
	Consumer Applications	
	General Purpose	
	Industrial Applications	
	Power/Other Tools	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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