

PolyOne OnFlex™ U 5355A-S0014 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-5355A-S0014-Thermoplastic-Elastomer-TPE.php

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 lb/in³	ISO 1183

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55	55	ISO 868
Tensile Strength at Break	14.7 MPa	2130 psi	ISO 37
Tensile Stress	2.30 MPa	334 psi	ISO 37
	@Strain 100 %	@Strain 100 %	
	4.40 MPa	638 psi	ISO 37
	@Strain 300 %	@Strain 300 %	
Elongation at Break	630 %	630 %	ISO 37
Abrasion	59	59	[mm³]; ISO 47469
Compression Set	80 %	80 %	ISO 815
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	

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
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Descriptive Properties	Value	Abrasion Resistance	Comments
	Oil Resistant		
	Scratch Resistant		
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

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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

