

OnFlex™ U 5355A-S0014

Thermoplastic Elastomer

PolyOne Corporation

Message:

OnFlex™-U thermoplastic elastomer polymer is a mixture of thermoplastic polyurethane elastomer (TPE-U). OnFlex™-U 5300 series products are alloys of SEBS and TPU, which combine the advantages of these two raw materials, such as good processability, a TPE-S soft touch, excellent mechanical properties, and a TPE-U abrasion resistance. OnFlex™-U 5300 polymer has very good scratch resistance, large hardness range and good chemical resistance.

General Information			
Features	Good wear resistance		
	Scratch resistance		
	Oil resistance		
Uses	Power/other tools		
	Industrial application		
	Application in Automobile Field		
	General		
	Consumer goods application field		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.02	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	55		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Abrasion Resistance	59.0	mm ³	ISO 47469
General Material Type	Thermoplastic polyurethane elastomer (TPU)		
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ISO 37
100% strain	2.30	MPa	ISO 37
300% strain	4.40	MPa	ISO 37
Tensile Stress (Break)	14.7	MPa	ISO 37
Tensile Elongation (Break)	630	%	ISO 37
Compression Set (70°C, 22 hr)	80	%	ISO 815
Additional Information	Nominal Value		

各项属性值是采用注射模制基板测量得出.

Injection	Nominal Value	Unit
Drying Temperature	100	°C
Drying Time	2.0	hr
Processing (Melt) Temp	170 - 210	°C
Mold Temperature	30.0 - 60.0	°C
Injection Rate	Slow	

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