

OnFlex™ U 5470A-E0083

Thermoplastic Elastomer

PolyOne Corporation

Message:

OnFlex™-U thermoplastic elastomer is a polymer based on thermoplastic polyurethane elastomer (TPE-U). OnFlex™-U 5400 series products are based on SEBS and aliphatic TPU alloys, combining the advantages of these two raw materials, such as TPE-S good processability and flexibility, excellent mechanical properties, and TPE-U wear resistance. OnFlex™-U 5400 polymer has very good scratch resistance, strong hardness, and good chemical resistance and light resistance.

General Information			
Features	Good UV resistance		
	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		
Appearance	Rough surface polishing		
Forms	Particle		
Processing Method	Film extrusion		
	Calendering		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.08	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	70		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Abrasion Loss	35.0	mm ³	DIN 53516
Fogging (100°C)	1.1	mg	DIN 75201B
Odor rating	2.30		VDA 270
General Material Type	Thermoplastic polyurethane elastomer alloy (TPU alloy)		
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹			ISO 37
Lateral flow: fracture, 23°C, 2.00mm	21.3	MPa	ISO 37
Traffic: fracture, 23°C, 2.00mm	22.2	MPa	ISO 37

Tensile Elongation ²			ISO 37
Lateral flow: fracture, 23°C, 2.00mm	480	%	ISO 37
Traffic: fracture, 23°C, 2.00mm	490	%	ISO 37
Tear Strength ³			ISO 34-1
Lateral flow: 23°C, 2.00mm	56	kN/m	ISO 34-1
Traffic: 23°C, 2.00mm	59	kN/m	ISO 34-1

Additional Information	Nominal Value	Test Method
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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	160 - 200	°C
Mold Temperature	30.0 - 60.0	°C
Injection Rate	Slow	

NOTE		
1.	Type 2, 200mm/min	
2.	Type 2, 200mm/min	
3.	Method A, pants-shaped sample, 500 mm/min	

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