

OnFlex™ U 5370A-E0077

Thermoplastic Elastomer

PolyOne Corporation

Message:

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.

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		
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	2.10		VDA 270
General Material Type	Thermoplastic polyurethane elastomer (TPU)		
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹			ISO 37
Lateral flow: fracture, 23°C, 2.00mm	17.7	MPa	ISO 37
Traffic: fracture, 23°C, 2.00mm	17.7	MPa	ISO 37
Tensile Elongation ²			ISO 37

Lateral flow: fracture, 23°C, 2.00mm	570	%	ISO 37
Traffic: fracture, 23°C, 2.00mm	580	%	ISO 37
Tear Strength ³			ISO 34-1
Lateral flow: 23°C, 2.00mm	47	kN/m	ISO 34-1
Traffic: 23°C, 2.00mm	53	kN/m	ISO 34-1

Optical	Nominal Value	Test Method
Gloss (60°)	6	ISO 2813
Additional Information	Nominal Value	Test Method

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	


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

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