

OnFlex™ BIO 5370A-E0004

Thermoplastic Elastomer

PolyOne Corporation

Message:

OnFlex™-Bio 5300 series thermoplastic elastomer polymers are thermoplastic polyurethane compounds produced from renewable natural resources. According to ASTM-D6866 certification, these compounds contain at least more than 20% renewable materials. OnFlex™-Bio 5300 series compounds have good surface finish, soft hand feeling, wear resistance and mechanical properties.

General Information	
Features	Updatable resources
	Good wear resistance
	Scratch resistance
Uses	Application in Automobile Field
	General
	Consumer goods application field
RoHS Compliance	RoHS compliance
Forms	Particle
Processing Method	Multiple injection molding
	Extrusion
	Calendering
	Injection molding

Physical	Nominal Value	Unit	Test Method
Density	1.05	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	63.0	mm ³	DIN 53516
Odor rating ¹	3.0		VDA 270
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ²			DIN 53504
Lateral flow: 100% strain, 23°C, 2.00mm	3.30	MPa	DIN 53504
Traffic: 100% strain, 23°C, 2.00mm	3.80	MPa	DIN 53504
Lateral flow: 300% strain, 23°C, 2.00mm	7.90	MPa	DIN 53504
Traffic: 300% strain, 23°C, 2.00mm	9.20	MPa	DIN 53504
Tensile Stress ³			DIN 53504
Lateral flow: fracture, 23°C, 2.00mm	11.0	MPa	DIN 53504
Traffic: fracture, 23°C, 2.00mm	12.7	MPa	DIN 53504
Tensile Elongation ⁴			DIN 53504

Lateral flow: fracture, 23°C, 2.00mm	410	%	DIN 53504
Traffic: fracture, 23°C, 2.00mm	410	%	DIN 53504
Tear Strength ⁵			ISO 34-1
Lateral flow: 23°C, 2.00mm	43	kN/m	ISO 34-1
Traffic: 23°C, 2.00mm	47	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	51	%	ISO 815
70°C, 22 hr	73	%	ISO 815
100°C, 22 hr	84	%	ISO 815
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 - 120	°C
Drying Time	1.0 - 2.0	hr
Processing (Melt) Temp	180 - 220	°C
Mold Temperature	30.0 - 60.0	°C
Injection Rate	Fast	

NOTE

1. Method A3
2. Type 1, 200mm/min
3. Type 1, 200mm/min
4. Type 1, 200mm/min
5. Method A, Pant-Shaped Specimen

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