

OnFlex™ S KG 50A-3S2017

Thermoplastic Elastomer

PolyOne Corporation

Message:

OnFlex™-S KG thermoplastic elastomer polymer is mixed with hydrogenated styrene block copolymer. This series of polymers has good compatibility and can provide excellent adhesion to polyamide polymer materials, such as PA6, PA6.6, PA11 and PA12. OnFlex-S KG polymer can be processed by 2K molding or multiple injection molding, plug-in molding or co-extrusion. In addition, OnFlex™-S KG polymer has good processability, good cost performance, wide hardness range, good coloring and mechanical properties.

General Information	
Features	Good adhesion General
Uses	overmolding Power/other tools Industrial application Application in Automobile Field Consumer goods application field
RoHS Compliance	RoHS compliance
Forms	Particle
Processing Method	Multiple injection molding Co-extrusion molding

Physical	Nominal Value	Unit	Test Method
Density	1.13	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/5.0 kg)	20.0	cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	50		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ISO 37
100% strain	1.70	MPa	ISO 37
300% strain	2.60	MPa	ISO 37
Tensile Stress (Break)	3.20	MPa	ISO 37
Tensile Elongation (Break)	330	%	ISO 37
Tear Strength	18	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	32	%	ISO 815
70°C, 22 hr	62	%	ISO 815
100°C, 22 hr	82	%	ISO 815

Additional Information	Nominal Value	
General Material Type	Styrene thermoplastic elastomers (TES)	
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	200 - 260	°C
Mold Temperature	30.0 - 50.0	°C
Injection Rate	Moderate	

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