

# OnFlex™ S KE 50A-3S1731

Thermoplastic Elastomer

PolyOne Corporation

Message:

OnFlex™-S KE thermoplastic elastomer polymer is mixed with hydrogenated styrene block copolymer. This series of polymers has good compatibility and can provide excellent adhesion to a variety of polar substrates, such as PC, ABS, PC/ABS, ASA, and PVC materials. OnFlex-S KE polymer can be processed by 2K molding or multiple injection molding, plug-in molding or co-extrusion. In addition, OnFlex-S KE polymer has good compression set even at high temperatures, good processability, large hardness range, good bending, scratch resistance, colorability, surface appearance, etc. at low temperatures, and excellent mechanical properties.

General Information	
Features	Good adhesion
	Scratch resistance
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	1.07	g/cm <sup>3</sup>	ISO 1183
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	3.90	MPa	ISO 37
Tensile Stress (Break)	4.30	MPa	ISO 37
Tensile Elongation (Break)	350	%	ISO 37
Compression Set			ISO 815
23°C, 72 hr	35	%	ISO 815
70°C, 22 hr	48	%	ISO 815
100°C, 22 hr	68	%	ISO 815
Flammability	Nominal Value	Unit	Test Method
Glow Wire Flammability Index (1.00 mm)	650	°C	IEC 60695-2-12

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.压缩永久变形值是 100°C 时 24 小时零件变形实验得出的值.		
Injection	Nominal Value	Unit
Drying Temperature	100	°C
Drying Time	2.0	hr
Processing (Melt) Temp	200 - 230	°C
Mold Temperature	20.0 - 40.0	°C
Injection Rate	Slow-Moderate	

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