

OnFlex™ S KA 40A-3S1767

Thermoplastic Elastomer

PolyOne Corporation

Message:

OnFlex™-S KA 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 KA polymer can be processed by 2K molding or multiple injection molding, plug-in molding or co-extrusion. In addition, OnFlex™-S KA polymer has good compression set even at high temperatures, its processability is good, the hardness range is large, the bending at low temperatures, scratch resistance, coloring, surface appearance, mechanical properties, etc. are good, and excellent UV resistance.

General Information			
Features	Good UV resistance Good adhesion Heat resistance, high		
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	1.09	g/cm ³	ISO 1183
Molding Shrinkage ¹			Internal method
Vertical flow direction: 72 hours, 2.00mm	0.90	%	Internal method
Flow direction: 72 hours, 2.00mm	2.9	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	40		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ISO 37
100% strain	1.00	MPa	ISO 37
300% strain	2.30	MPa	ISO 37
Tensile Stress (Break)	3.00	MPa	ISO 37
Tensile Elongation (Break)	410	%	ISO 37
Tear Strength	17	kN/m	ISO 34-1
Compression Set			ISO 815

23°C, 72 hr	13	%	ISO 815
70°C, 22 hr	29	%	ISO 815
100°C, 22 hr	57	%	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	

NOTE

- The results may vary according to process parameters, part geometry, and tool design when measuring 100x100x2mm of the substrate.

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

