



OnFlex™-S KA 30A-3S1766

Styrenic Thermoplastic Elastomer

Key Characteristics

Product Description

OnFlex™-S KA thermoplastic elastomer compounds are based on hydrogenated styrenic block copolymers. This range of compounds are specially compatibilized to provide excellent adhesion to polyamide polymers including PA6, PA6.6, PA11 and PA12. OnFlex™-S KA can be processed by 2K molding or overmolding, insert molding or co-extrusion. In addition to this, OnFlex™-S KA compounds are formulated to provide excellent compression set performance, even at elevated temperatures, a wide hardness range, good colourability and surface appearance, good mechanical properties and excellent UV resistance.

General

Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • North America	• South America
Features	• Good Adhesion	• Good UV Resistance	• High Heat Resistance
Uses	• Automotive Applications • Consumer Applications	• Industrial Applications • Overmolding	• Power/Other Tools
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		
Processing Method	• Coextrusion	• Multi Injection Molding	

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.09 g/cm ³	1.09 g/cm ³	ISO 1183
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Stress (100% Strain)	87.0 psi	0.600 MPa	ISO 37
Tensile Stress (300% Strain)	276 psi	1.90 MPa	ISO 37
Tensile Stress (Break)	363 psi	2.50 MPa	ISO 37
Tensile Elongation (Break)	350 %	350 %	ISO 37
Tear Strength	71 lbf/in	13 kN/m	ISO 34-1
Compression Set			ISO 815
73°F (23°C), 72.0 hr	12 %	12 %	
158°F (70°C), 22.0 hr	29 %	29 %	
212°F (100°C), 22.0 hr	60 %	60 %	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Shore Hardness (Shore A)	30	30	ISO 868

Additional Properties

Properties are measured using injection molded plaques.

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	212 °F	100 °C
Drying Time	2.0 hr	2.0 hr
Processing (Melt) Temp	392 to 500 °F	200 to 260 °C
Mold Temperature	86.0 to 122 °F	30.0 to 50.0 °C
Injection Rate	Moderate	Moderate

Notes

¹ Typical values are not to be construed as specifications.

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CONTACT INFORMATION

Americas

Argentina - Buenos Aires
+0054 11 4200 5917

Brasil - Campinas
+55 19 3206 0561

Mexico - Toluca
+52 722 2790200

United States - Avon Lake
+1 440 930 1000

United States - McHenry
+1 (815) 385-8500

Asia

China - Shenzhen
+86 (0) 755 2969 2888

China - Suzhou
+86 (0) 512 6823 24 38

China - Suzhou
+86 512 6265 2600

Hong Kong -
+852 2690 5332

India - Mumbai
+91 9820 194 220

Taiwan - Yonghe City,
+886 9396 99740

Europe

Germany - Gaggenau
+49 (0) 7225 6802 0

Netherlands - The Netherlands
+31 (0) 165 331 293

Spain - Barbastro (Huesca)
+34 (0) 9 7431 0314

Turkey - Cekmece-Istanbul-Türkiye
+90 (0) 212 549 2256



Beyond Polymers.

Better Business Solutions. SM

www.polyone.com

PolyOne Americas

33587 Walker Road
Avon Lake, Ohio 44012
United States
+1 440 930 1000
+1 866 POLYONE

PolyOne Asia

No. 88 Guoshoujing Road
Z.J Hi-tech Park, Pudong
Shanghai, 201203, China
+86 (0) 21 5080 1188

PolyOne Europe

2 Rue Melville Wilson
5330 Assesse, Belgium
+32 (0) 83 660 211