

## PolyOne OnFlex™ S KA 80A-3S1770 Thermoplastic Elastomer (TPE)

Category : Polymer , Thermoplastic , Elastomer, TPE

### Material Notes:

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. Properties are measured using injection molded plaques. Information provided by PolyOne

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-OnFlex-S-KA-80A-3S1770-Thermoplastic-Elastomer-TPE.php](http://www.lookpolymers.com/polymer_PolyOne-OnFlex-S-KA-80A-3S1770-Thermoplastic-Elastomer-TPE.php)

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in <sup>3</sup>	ISO 1183

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	ISO 868
Tensile Strength at Break	7.50 MPa	1090 psi	ISO 37
Tensile Stress	3.90 MPa @Strain 100 %	566 psi @Strain 100 %	ISO 37
	6.10 MPa @Strain 300 %	885 psi @Strain 300 %	ISO 37
Elongation at Break	500 %	500 %	ISO 37
Tear Strength	46.0 kN/m	262 pli	ISO 34-1
Compression Set	23 % @Temperature 23.0 °C, Time 259000 sec	23 % @Temperature 73.4 °F, Time 72.0 hour	ISO 815
	38 % @Temperature 70.0 °C, Time 79200 sec	38 % @Temperature 158 °F, Time 22.0 hour	ISO 815
	54 % @Temperature 100 °C, Time 79200 sec	54 % @Temperature 212 °F, Time 22.0 hour	ISO 815

Processing Properties	Metric	English	Comments
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Melt Temperature Processing Properties	200 - 260 °C Metric	392 - 500 °F English	Comments
Mold Temperature	30.0 - 50.0 °C	86.0 - 122 °F	
Drying Temperature	100 °C	212 °F	
Dry Time	2.00 hour	2.00 hour	

Descriptive Properties	Value	Comments
Features	Good Adhesion	
	Good UV Resistance	
	High Heat Resistance	
Forms	Pellets	
Generic Material	TPE	
Generic Material Type	Styrenic Thermoplastic Elastomer (TES)	
Generic Name	Thermoplastic Elastomer (TPE)	
Injection Rate	Moderate	
Manufacturer / Supplier	GLS Thermoplastic Elastomers	
Processing Method	Coextrusion	
	Multi Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
RoHS Compliance	RoHS Compliant	
Uses	Automotive Applications	
	Consumer Applications	
	Industrial Applications	
	Overmolding	
	Power/Other Tools	

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