

## PolyOne OnFlex™ S EF 80A-3S1977 Thermoplastic Elastomer (TPE)

Category : Polymer , Thermoplastic , Elastomer, TPE

### Material Notes:

OnFlex™-S EF thermoplastic elastomer compounds are based on hydrogenated styrenic block copolymers. This range of compounds are formulated to deliver good mechanical properties together with excellent processability, in addition to typical OnFlex™-S properties such as a wide hardness range, low compression set, good colourability and a wide temperature operating range. OnFlex™-S EF compounds are semi-filled, making them opaque and with a medium density. 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-EF-80A-3S1977-Thermoplastic-Elastomer-TPE.php](http://www.lookpolymers.com/polymer_PolyOne-OnFlex-S-EF-80A-3S1977-Thermoplastic-Elastomer-TPE.php)

Physical Properties	Metric	English	Comments
Density	0.980 g/cc	0.0354 lb/in <sup>3</sup>	ISO 1183

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	ISO 868
Tensile Strength at Break	12.0 MPa	1740 psi	ISO 37
Tensile Stress	4.60 MPa	667 psi	ISO 37
	@Strain 100 %	@Strain 100 %	
Elongation at Break	6.00 MPa	870 psi	ISO 37
	@Strain 300 %	@Strain 300 %	
Tear Strength	42.0 kN/m	240 pli	ISO 34-1
Abrasion	145	145	[mm <sup>3</sup> ]; DIN 53516
Compression Set	30 %	30 %	ISO 815
	@Temperature 23.0 °C, Time 259000 sec	@Temperature 73.4 °F, Time 72.0 hour	
	65 %	65 %	
Compression Set	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	ISO 815
	91 %	91 %	ISO 815
Compression Set	@Temperature 100 °C, Time 79200 sec	@Temperature 212 °F, Time 22.0 hour	ISO 815

Processing Properties	Metric	English	Comments
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Processing Properties	Metric <sup>20 °C</sup>	English <sup>68 °F</sup>	Comments
Mold Temperature	30.0 - 60.0 °C	86.0 - 140 °F	

Descriptive Properties	Value	Comments
Features	High Flow	
Forms	Pellets	
Generic Material	TPE	
Generic Material Type	Styrenic Thermoplastic Elastomer (TES)	
Generic Name	Thermoplastic Elastomer (TPE)	
Injection Rate	Fast	
Manufacturer / Supplier	GLS Thermoplastic Elastomers	
Processing Method	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
RoHS Compliance	RoHS Compliant	
Uses	Appliances	
	Automotive Applications	
	Consumer Applications	
	General Purpose	
	Industrial Applications	

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