

OnFlex™ S EF 80A-3S1977

Thermoplastic Elastomer

PolyOne Corporation

Message:

OnFlex™-S EF thermoplastic elastomer polymer is mixed with hydrogenated styrene block copolymer. In addition to having OnFlex™The main characteristics of-S products, such as high hardness, good mechanical properties, good processability, good coloring properties, and a large operating temperature range, this series of polymers has excellent mechanical properties and processability. OnFlex™-S EF polymer is semi-filled, so it is opaque and has a medium density.

General Information			
Features	High liquidity		
Uses	Electrical appliances		
	Industrial application		
	Application in Automobile Field		
	General		
	Consumer goods application field		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.980	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	80		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Abrasion Loss	145	mm ³	DIN 53516
General Material Type	Styrene thermoplastic elastomers (TES)		
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ISO 37
100% strain	4.60	MPa	ISO 37
300% strain	6.00	MPa	ISO 37
Tensile Stress (Break)	12.0	MPa	ISO 37
Tensile Elongation (Break)	700	%	ISO 37
Tear Strength	42	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	30	%	ISO 815
70°C, 22 hr	65	%	ISO 815
100°C, 22 hr	91	%	ISO 815
Additional Information	Nominal Value		
各项属性值是采用注射模制基板测量得出.			
Injection	Nominal Value	Unit	

Processing (Melt) Temp	180 - 220	°C
Mold Temperature	30.0 - 60.0	°C
Injection Rate	Fast	

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