

OnFlex™ S HF 50A-3S1981

Thermoplastic Elastomer

PolyOne Corporation

Message:

OnFlex™-S HF thermoplastic elastomer polymer is mixed with hydrogenated styrene block copolymer. This series of polymers uses a unique, patent-pending halogen-free flame retardant system. And, OnFlex™-S HF polymer has good mechanical properties, meets the requirements of UL94 V-0, has good oxygen limit index (LOI) value, large hardness range, good processability, and excellent stability to ultraviolet rays.

General Information			
Features	Flame retardancy		
Uses	Electrical/Electronic Applications		
	Industrial application		
	Application in Automobile Field		
	Business equipment		
	General		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.09	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	50		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ISO 37
100% strain	1.10	MPa	ISO 37
300% strain	2.00	MPa	ISO 37
Tensile Stress (Break)	2.50	MPa	ISO 37
Tensile Elongation (Break)	400	%	ISO 37
Tear Strength	24	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	10	%	ISO 815
70°C, 22 hr	40	%	ISO 815
100°C, 22 hr	77	%	ISO 815
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	550	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	V-0		UL 94
Glow Wire Flammability Index (2.00 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (2.00 mm)	725	°C	IEC 60695-2-13
Oxygen Index	36	%	ISO 4589-2

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	80.0	°C
Drying Time	2.0	hr
Processing (Melt) Temp	160 - 180	°C
Mold Temperature	30.0 - 50.0	°C
Injection Rate	Moderate-Fast	

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