

# OnFlex™ S FR 40A-3S1841

Thermoplastic Elastomer

PolyOne Corporation

## Message:

OnFlex™-S FR thermoplastic elastomer polymer is mixed with hydrogenated styrene block copolymer. This series of polymers have high-efficiency halogen-based flame retardant systems that comply with the RoHS Directive on Restricting the Use of Certain Hazardous Substances in Electrical and Electronic Equipment, so they are especially flame retardant. And, OnFlex™-S FR polymer has excellent mechanical properties, good high temperature compression performance and processability, and a wide range of hardness.

General Information			
UL YellowCard	E76261-593314		
Features	Halogenated		
	Flame retardancy		
Uses	Electrical/Electronic Applications		
	Industrial application		
	Application in Automobile Field		
	Business equipment		
	General		
Agency Ratings	UL QMFZ2 .E76261		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm <sup>3</sup>	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	40		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ISO 37
100% strain	1.10	MPa	ISO 37
300% strain	3.10	MPa	ISO 37
Tensile Stress (Break)	4.50	MPa	ISO 37
Tensile Elongation (Break)	430	%	ISO 37
Tear Strength	18	kN/m	ISO 34-1
Compression Set			ISO 815
23°C, 72 hr	14	%	ISO 815
70°C, 22 hr	27	%	ISO 815
100°C, 22 hr	47	%	ISO 815
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
Oxygen Index	27	%	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			
Processing (Melt) Temp			
200 - 220			
°C			
Mold Temperature			
40.0 - 60.0			
°C			
Injection Rate			
Fast			

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