

# OnFlex™ HT 70A-3S2103

Thermoplastic Elastomer

PolyOne Corporation

## Message:

OnFlex™HT thermoplastic elastomer polymer is based on hydrogenated styrene block copolymer.

This series of polymers specializes in providing good compression permanent deformation resistance and high heat resistance at high temperatures.

In addition, OnFlex™HT polymer conforms to EN 681-2 standard, providing excellent mechanical properties, wide hardness range and good processability.

General Information	
Features	Low compressive deformability Ozone resistance Heat resistance, high
Uses	Pipe seal
RoHS Compliance	RoHS compliance
Forms	Particle
Processing Method	Extrusion Injection molding

Physical	Nominal Value	Unit	Test Method
Density	1.00	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage - Flow (23°C, 2.00 mm)	1.5 - 1.9	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shao A, 3 seconds, 23°C, 6.00mm, injection molding)	70		DIN 53505
IRHD Hardness	78		ISO 48
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress <sup>1</sup>			DIN 53504
Lateral flow: fracture, 23°C, 2.00mm	9.40	MPa	DIN 53504
Traffic: fracture, 23°C, 2.00mm	7.50	MPa	DIN 53504
Tensile Elongation <sup>2</sup>			DIN 53504
Lateral flow: fracture, 23°C, 2.00mm	800	%	DIN 53504
Traffic: fracture, 23°C, 2.00mm	630	%	DIN 53504
Tear Strength	37	kN/m	ISO 34-1
Compression Set			ISO 815
-10°C, 22 hr	43	%	ISO 815
23°C, 72 hr	25	%	ISO 815
70°C, 22 hr	40	%	ISO 815
100°C, 22 hr	51	%	ISO 815
Stress relaxation			ISO 3384

23°C <sup>3</sup>	15	%	ISO 3384
23°C <sup>4</sup>	23	%	ISO 3384
General Material Type	Styrene thermoplastic elastomers (TES)		
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity			ASTM D3835
200°C, 1340 sec <sup>-1</sup>	71.2	Pa·s	ASTM D3835
200°C, 11200 sec <sup>-1</sup>	18.6	Pa·s	ASTM D3835
Additional Information	Nominal Value	Unit	Test Method

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		

NOTE	
1.	200 mm/min
2.	200 mm/min
3.	168 hours, 25% intensity of compression, method A
4.	100 days, 25% intensity of compression, method A

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

