



# OnFlex™ HT 80A-3E2561

## Thermoplastic Elastomer

### Key Characteristics

#### Product Description

OnFlex™ HT thermoplastic elastomer compounds are based on hydrogenated styrenic block copolymers. This range of compounds is specially formulated to deliver very good compression set performance at elevated temperatures and a high heat resistance. Furthermore, OnFlex™ HT compounds offer excellent mechanical properties, a wide hardness range and good processability.

#### General

Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• High Heat Resistance	• Low Compression Set	• Ozone Resistant
Uses	• Pipe Seals		
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		
Processing Method	• Injection Molding		

### Technical Properties <sup>1</sup>

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.00 g/cm <sup>3</sup>	1.00 g/cm <sup>3</sup>	ISO 1183
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Stress <sup>2</sup>			DIN 53504
Across Flow : Break, 73°F (23°C), 0.0787 in (2.00 mm)	1600 psi	11.0 MPa	
Flow : Break, 73°F (23°C), 0.0787 in (2.00 mm)	1310 psi	9.00 MPa	
Tensile Elongation <sup>2</sup>			DIN 53504
Across Flow : Break, 73°F (23°C), 0.0787 in (2.00 mm)	750 %	750 %	
Flow : Break, 73°F (23°C), 0.0787 in (2.00 mm)	650 %	650 %	
Compression Set			ISO 815
14°F (-10°C), 22 hr	44 %	44 %	
73°F (23°C), 72 hr	27 %	27 %	
158°F (70°C), 22 hr	44 %	44 %	
212°F (100°C), 22 hr	53 %	53 %	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Shore Hardness			DIN 53505
Shore A, 3 sec, 73°F (23°C), 0.236 in (6.00 mm), Injection Molded	80	80	
Additional Information	Typical Value (English)	Typical Value (SI)	
Generic Material Type	Styrenic Thermoplastic Elastomer (TES)	Styrenic Thermoplastic Elastomer (TES)	

Properties are measured using injection molded plaques.

**Processing Information**

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	356 to 428 °F	180 to 220 °C
Mold Temperature	86 to 140 °F	30 to 60 °C
Injection Rate	Fast	Fast

**Notes**

<sup>1</sup> Typical values are not to be construed as specifications.

<sup>2</sup> 7.9 in/min (200 mm/min)



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