OnFlex™ 7610-80

Thermoplastic Elastomer

Key Characteristics

Product Description

OnFlex™ 7610-80 is an easy processing TPE designed for a variety of automotive applications.

- Excellent surface finish
- Good adhesion to polypropylene
- Excellent performance in static mechanical parts such as seals & grips, plugs, clips and cable clamps.
- Good UV stability
- Low Odor per VDA 270
- OnFlex™ 7610-80 = black
- OnFlex™ 7610-80 = natural

General		
Material Status	• Commercial: Active	
Regional Availability	• North America	
Features	• Good Processability	
Uses	• Automotive Applications • Gaskets	• Overmolding • Plugs
RoHS Compliance	• RoHS Compliant	
Appearance	• Black	• Natural Color
Forms	• Pellets	
Processing Method	• Injection Molding	

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.00 g/cm³	1.00 g/cm³	ASTM D792
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength (Break)	1440 psi	9.91 MPa	ASTM D412
Tensile Elongation (Break)	610 %	610 %	ASTM D412
Tear Strength	247 lbf/in	43.3 kN/m	ASTM D624
Compression Set			ASTM D395
73°F (23°C), 72 hr	27 %	27 %	
158°F (70°C), 22 hr	58 %	58 %	
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Shore Hardness (Shore A, 10 sec)	82	82	ISO 48-4
Additional Information	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Weather Resistance [2]	expected to pass (black version)	expected to pass (black version)	SAE J2527

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Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Suggested Max Regrind	20 %	20 %
Rear Temperature	320 to 370 °F	160 to 188 °C
Middle Temperature	350 to 380 °F	177 to 193 °C
Front Temperature	370 to 410 °F	188 to 210 °C
Nozzle Temperature	370 to 420 °F	188 to 216 °C
Mold Temperature	86 to 140 °F	30 to 60 °C
Injection Rate	Fast	Fast
Back Pressure	0.00 to 120 psi	0.00 to 0.827 MPa
Screw Speed	40 to 100 rpm	40 to 100 rpm

Notes

[1] Typical values are not to be construed as specifications.

[2] OnFlex 7610-80B (80Sh A; black) has been tested according weathering test SAE J2527.

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