OnFlex™ AF 7210-90

Thermoplastic Elastomer

Key Characteristics

Product Description

OnFlex™ AF 7210-90 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, panel fasteners, plugs, clips and cable clamps.
- Good UV stability
- OnFlex™ AF 7210-90B = black
- OnFlex™ AF 7210-90N = natural

General			
Material Status	• Commercial: Active		
Regional Availability	• Asia Pacific	• Europe	• North America
Features	• Good Processability		
Uses	• Automotive Applications • Fasteners	• 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	0.990 g/cm³	0.990 g/cm³	ISO 1133
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength [2]			ISO 37
Across Flow : Break, 73°F (23°C), 0.0787 in (2.00 mm)	2770 psi	19.1 MPa	
Flow : Break, 73°F (23°C), 0.0787 in (2.00 mm)	2030 psi	14.0 MPa	
Tensile Elongation [2]			ISO 37
Across Flow : Break, 73°F (23°C), 0.0787 in (2.00 mm)	700 %	700 %	
Flow : Break, 73°F (23°C), 0.0787 in (2.00 mm)	600 %	600 %	
Tear Strength			ISO 34-1
Across Flow : 73°F (23°C), 0.0787 in (2.00 mm)	371 lbf/in	65.0 kN/m	
Flow : 73°F (23°C), 0.0787 in (2.00 mm)	345 lbf/in	60.5 kN/m	
Compression Set			ISO 815
73°F (23°C), 72 hr	28 %	28 %	
158°F (70°C), 22 hr	56 %	56 %	
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Shore Hardness (Shore A, 10 sec)	90	90	ISO 48-4
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Burning Rate	< 3.9 in/min	< 100 mm/min	DIN 75200

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Additional Information	Typical Value (English)	Typical Value (SI)	Test Method
Weather Resistance [3]	expected to pass	expected to pass	SAE J2527

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] 7.9 in/min (200 mm/min)

[3] OnFlex AF 7210-60B (60Sh A; black) as part the of the AF-range has been tested according waethering test SAE J2527. It has successfully passed the extended test time of 1500h.

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