OnFlex™ AF 7210-70

Thermoplastic Elastomer

Key Characteristics

Product Description

OnFlex™ AF 7210-70 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 7210-70B = black
- OnFlex™ AF 7210-70N = 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			
-- [2]	0.990 g/cm³	0.990 g/cm³	ISO 1133
-- [3]	0.990 g/cm³	0.990 g/cm³	ASTM D792
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength			
Break [2]	1380 psi	9.50 MPa	ISO 37
Break [3]	1160 psi	8.00 MPa	ASTM D412
Tensile Elongation			
Break [2]	700 %	700 %	ISO 37
Break [3]	700 %	700 %	ASTM D412
Tear Strength			
-- [2]	206 lbf/in	36.0 kN/m	ISO 34-1
-- [3]	189 lbf/in	33.0 kN/m	ASTM D624
Compression Set			
73°F (23°C), 72 hr [2]	30 %	30 %	ISO 815
73°F (23°C), 72 hr [3]	31 %	31 %	ASTM D395
158°F (70°C), 22 hr [2]	41 %	41 %	ISO 815
158°F (70°C), 22 hr [3]	45 %	45 %	ASTM D395
212°F (100°C), 22 hr [2]	59 %	59 %	ISO 815
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Shore Hardness (Shore A, 10 sec)	70	70	ISO 48-4

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Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Burning Rate [4]	< 3.9 in/min	< 100 mm/min	DIN 75200
Additional Information	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Weather Resistance [5]	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] Europe

[3] China

[4] DIN 75200 and FMVSS 302 are comparable.

[5] 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.

CONTACT INFORMATION

North America
Avon Lake, United States
33587 Walker Road
Avon Lake, OH, United States , 44012
+1 440 930 1000
+1 844 4AVIENT

South America
Sao Paulo, Brazil
Av. Francisco Nakasato, 1700
13295-000 Itupeva
Sao Paulo, Brazil
+55 11 4593 9200

Asia
Shanghai, China
2F, Block C
200 Jinsu Road
Pudong, 201206
Shanghai, China
+86 (0) 21 6028 4888

Europe
Pommerloch, Luxembourg
19 Route de Bastogne
Pommerloch, Luxembourg , L-9638
+352 269 050 35

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