



OnFlex™ AF 7210-60

Thermoplastic Elastomer

Key Characteristics

Product Description

OnFlex™ AF 7210-60 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 7210-60B = black
- OnFlex™ AF 7210-60N = 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	• Extrusion	• Injection Molding	

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density			
-- ²	0.990 g/cm ³	0.990 g/cm ³	ISO 1133
-- ³	0.990 g/cm ³	0.990 g/cm ³	ASTM D792
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength			
Break ²	1230 psi	8.50 MPa	ISO 37
Break ³	1090 psi	7.50 MPa	ASTM D412
Tensile Elongation			
Break ²	750 %	750 %	ISO 37
Break ³	700 %	700 %	ASTM D412
Tear Strength			
-- ²	177 lbf/in	31.0 kN/m	ISO 34-1
-- ³	157 lbf/in	27.5 kN/m	ASTM D624
Compression Set			
73°F (23°C), 72 hr ²	27 %	27 %	ISO 815
73°F (23°C), 72 hr ³	26 %	26 %	ASTM D395
158°F (70°C), 22 hr ²	39 %	39 %	ISO 815
158°F (70°C), 22 hr ³	42 %	42 %	ASTM D395
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness			
Shore A, 3 sec ²	60	60	ISO 868
Shore A, 10 sec ³	57	57	ASTM D2240

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Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Burning Rate	< 3.9 in/min	< 100 mm/min	DIN 75200
Additional Information	Typical Value (English)	Typical Value (SI)	Test Method
Weather Resistance - (1500h)	passed (black version)	passed (black version)	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	86.0 to 140 °F	30.0 to 60.0 °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
Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	356 to 428 °F	180 to 220 °C

Notes

¹ Typical values are not to be construed as specifications.

² Europe

³ China

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