OnFlex™ AF 7215-90 B

Thermoplastic Elastomer

Key Characteristics

Product Description

OnFlex™ AF 7215-90 B 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.
- Improved UV stability

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		
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
Molding Shrinkage - Flow [3]			Internal Method
0.0787 in (2.00 mm), Injection Molded	0.013 in/in	1.3 %	
Molding Shrinkage - Across Flow [3]			Internal Method
0.0787 in (2.00 mm), Injection Molded	0.013 in/in	1.3 %	
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength - after heat aging 96h @ 90°C [4]	2176 psi	15.0 MPa	ISO 37
Tensile Elongation - after heat aging 96h @ 90°C [4]	700 %	700 %	ISO 37
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength [5, 2] (Break)	2320 psi	16.0 MPa	ISO 37
Tensile Elongation [5, 2] (Break)	1000 %	1000 %	ISO 37
Tear Strength [2]	331 lbf/in	58.0 kN/m	ISO 34-1
Compression Set [2]			ISO 815
73°F (23°C), 72 hr	33 %	33 %	
158°F (70°C), 22 hr	54 %	54 %	
212°F (100°C), 22 hr	65 %	65 %	
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Shore Hardness (Shore A, 10 sec)	86	86	ISO 48-4
Aging	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Change in Volume in Air			Internal Method
194°F (90°C), 96 hr	-0.30 %	-0.30 %	

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Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Volume Resistivity	6.5E+16 ohms·cm	6.5E+16 ohms·cm	IEC 60093
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Flame Rating [6] (0.06 in (1.6 mm), black)	HB	HB	FMVSS 302
Additional Information	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Weather Resistance [7]	expected to pass PV 3929	expected to pass PV 3929	Internal Method

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] 100x100x2mm.
Ejected part is smaller than the mould cavity. Strain resulting from strong longitudinal shrinkage can cause an increase in the transversal dimensions.

[4] 200 mm/min

[5] 7.9 in/min (200 mm/min)

[6] hoizontal burning rate measured 40 mm / min

[7] OnFlex AF 7215-60 B (60Sh A; black) as part the of the AF-range has been tested according waethering test PV 3929 (Kalahari-Test). It has successfully passed the test time of 1500h.

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