OnFlex™ AF 7210-25B

Thermoplastic Elastomer

Key Characteristics

Product Description

OnFlex™ AF 7210-25 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
- The compound is formulated based on hydrogenated styrenic block copolymers(SEBS)

General			
Material Status	• Commercial: Active		
Regional Availability	• Asia Pacific	• Europe	
Features	• Good Processability		
Uses	• Automotive Applications • Fasteners	• Gaskets • Outdoor Applications	• Overmolding • Plugs
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	0.990 g/cm³	0.990 g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/5.0 kg)	29 cm³/10min	29 cm³/10min	ISO 1133
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Stress			DIN 53504
Across Flow : 100% Strain	58.0 psi	0.400 MPa	
Flow : 100% Strain	116 psi	0.800 MPa	
Tensile Stress			DIN 53504
Across Flow : 300% Strain	145 psi	1.00 MPa	
Flow : 300% Strain	247 psi	1.70 MPa	
Tensile Strength			DIN 53504
Across Flow	682 psi	4.70 MPa	
Flow	319 psi	2.20 MPa	
Tensile Elongation			DIN 53504
Across Flow : Break	840 %	840 %	
Flow : Break	530 %	530 %	
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Shore Hardness (Shore A, 10 sec)	25	25	ISO 48-4

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Fill Analysis	Typical Value (English)	Typical Value (SI)	Test Method
Apparent Viscosity			Internal Method
392°F (200°C), 67.0 sec^-1	348 Pa·s	348 Pa·s	
392°F (200°C), 223 sec^-1	147 Pa·s	147 Pa·s	
392°F (200°C), 1340 sec^-1	39.7 Pa·s	39.7 Pa·s	
392°F (200°C), 11200 sec^-1	8.10 Pa·s	8.10 Pa·s	
392°F (200°C), 67000 sec^-1	2.00 Pa·s	2.00 Pa·s	

Additional Information

OnFlex AF 7210-25B is expected to pass the weather resistance test SAE J2527.

OnFlex AF 7210-60B (60 Sh A; black) as part of the AF-range has been tested according to weathering test SAE J2527. It has sucessfully passed the extended test time of 1500h.

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
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.

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