reSound™ REC AF 7210-180 B

Thermoplastic Elastomer

Key Characteristics

Product Description

reSound REC AF 7210-xx series are easy flowing TPEs designed for a variety of automotive interior applications. They contain a minimum of 37% PCR content and a minimum of 51% total recycling content.

- 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
- reSound REC AF 7210-180 B = black

General			
Material Status	• Commercial: Active		
Regional Availability	• Asia Pacific	• Europe	• North America
Recycled Content	• Yes, 56%		
Features	• Good Processability	• Low Fogging	• Low Odor
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	0.990 g/cm³	0.990 g/cm³	ISO 1183
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength (Break)	1780 psi	12.3 MPa	ISO 37
Tensile Elongation (Break)	810 %	810 %	ISO 37
Tear Strength	274 lbf/in	48.0 kN/m	ISO 34-1
Compression Set			ISO 815
73°F (23°C), 72 hr	30 %	30 %	
158°F (70°C), 22 hr	54 %	54 %	
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Shore Hardness (Shore A, 10 sec)	80	80	ISO 48-4
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**
Fogging	< 2.0 mg	< 2.0 mg	DIN 75201
Odor	< 3.00	< 3.00	VDA 270

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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.

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