reSound™ Rec GP 7820-180

Thermoplastic Elastomer

Key Characteristics

Product Description
reSound™ Rec GP 7820-180 NATURAL G is a specialty post-consumer-recycled (PCR) based thermoplastic elastomer material with 60% recycled content. The compound is designed for consumer applications and formulated based on hydrogenated styrenic block copolymer (SEBS).

General		
Material Status	• Commercial: Active	
Regional Availability	• Europe	
Recycled Content	• Post-Consumer (PCR), 60%	
Features	• Specialty Grade	
Uses	• Consumer Applications	• Overmolding
RoHS Compliance	• RoHS Compliant	
Appearance	• Natural Color	
Forms	• Pellets	
Processing Method	• Injection Molding	

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.01	1.01	ISO 1183
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength [2, 3] (Break, 73°F (23°C))	1010 psi	6.94 MPa	ISO 37
Tensile Elongation [2, 3] (Break, 73°F (23°C))	640 %	640 %	ISO 37
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Durometer Hardness (Shore A, 10 sec)	80	80	ISO 48-4
Fill Analysis	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Apparent Viscosity			ASTM D3835
392°F (200°C), 11200 sec^-1	6.73 Pa·s	6.73 Pa·s	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Rear Temperature	331 to 370 °F	166 to 188 °C
Middle Temperature	351 to 379 °F	177 to 193 °C
Front Temperature	370 to 440 °F	188 to 227 °C
Nozzle Temperature	360 to 421 °F	182 to 216 °C
Mold Temperature	61 to 100 °F	16 to 38 °C

Injection Notes

Purge thoroughly before and after use of this product with a low flow (0.5 - 2.5 MFR) polyethylene (PE) or polypropylene (PP).

Generally, the barrel should be emptied if it is idle for periods of 8 - 10 minutes or longer.

Drying is not Required

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Notes

[1] Typical values are not to be construed as specifications.

[2] Die C

[3] 2 hr

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