reSound™ REC GP 7820-360

Thermoplastic Elastomer

Key Characteristics

Product Description		
reSound™ Rec GP 7820-360 NATURAL is a specialty post-consumer-recycled (PCR) and post-industrial recycled (PIR) based thermoplastic elastomer material with 60% minimum 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	• North America	
Recycled Content	• Yes, 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	0.970	0.970	ASTM D792
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength [2, 3] (Break, 73°F (23°C))	908 psi	6.26 MPa	ASTM D412
Tensile Elongation [2, 3] (Break, 73°F (23°C))	490 %	490 %	ASTM D412
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Durometer Hardness (Shore A, 10 sec)	60	60	ASTM D2240
Fill Analysis	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Apparent Viscosity			ASTM D3835
392°F (200°C), 11200 sec^-1	5.70 Pa·s	5.70 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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