reSound™ REC VX2800-5032 C 47A Natural

Thermoplastic Elastomer

Key Characteristics

Product Description	
reSound™ REC VX2800-5032 C 47A Natural is a general purpose, unfilled TPE compound made with post consumer recycled content that overmolds onto PP.	
General	
Material Status	• Commercial: Active
Regional Availability	• Europe
Recycled Content	• Yes, 62%
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	0.960	0.960	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	30 cm³/10min	30 cm³/10min	ISO 1133
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength [2, 3] (Yield, 73°F (23°C))	261 psi	1.80 MPa	DIN 53504
Tensile Elongation [2, 3] (Break, 73°F (23°C))	770 %	770 %	DIN 53504
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Durometer Hardness (Shore A, 10 sec)	47	47	ISO 48-4
Fill Analysis	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Apparent Viscosity			ASTM D3835
392°F (200°C), 11200 sec^-1	8.20 Pa·s	8.20 Pa·s	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Suggested Max Regrind	20 %	20 %
Rear Temperature	330 to 370 °F	166 to 188 °C
Middle Temperature	350 to 380 °F	177 to 193 °C
Front Temperature	370 to 440 °F	188 to 227 °C
Nozzle Temperature	360 to 420 °F	182 to 216 °C
Processing (Melt) Temp	380 to 440 °F	193 to 227 °C
Mold Temperature	60 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). Regrind levels up to 20% can be used with reSound™ REC VX2800-5032 C 47A Natural with minimal property losses, provided that the regrind is free of contamination. To minimize losses during molding, the melt temperature should be as low as possible. The final determination of regrind effectiveness should be determined by the customer. Maximum residence times may vary, depending on the size of the barrel. 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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