reSound™ R DY7810-802 C 54A Natural

Thermoplastic Elastomer

Key Characteristics

Product Description	
reSound™ R DY7810-802 C 54A Natural is a general purpose TPE compound made with post consumer recycled content that can overmold onto PP.	
General	
Material Status	• Commercial: Active
Regional Availability	• Asia Pacific
Recycled Content	• Post-Consumer (PCR), 25%
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	0.950	0.950	ASTM D792
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength [2, 3] (Yield, 73°F (23°C))	310 psi	2.14 MPa	ASTM D412
Tensile Elongation [2, 3] (Break, 73°F (23°C))	580 %	580 %	ASTM D412
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Durometer Hardness (Shore A, 10 sec)	54	54	ASTM D2240
Fill Analysis	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Apparent Viscosity			ASTM D3835
392°F (200°C), 11200 sec^-1	7.60 Pa·s	7.60 Pa·s	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Suggested Max Regrind	20 %	20 %
Rear Temperature	320 to 356 °F	160 to 180 °C
Middle Temperature	338 to 374 °F	170 to 190 °C
Front Temperature	356 to 392 °F	180 to 200 °C
Nozzle Temperature	356 to 392 °F	180 to 200 °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™ R DY7810-801 C 54A 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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