reSound™ REC OM 6540B

Thermoplastic Elastomer

Key Characteristics

Product Description

reSound™ REC OM 6540B 40A Natural is a specialty post-consumer-recycled (PCR) based thermoplastic elastomer material with 30% recycled content. The compound is designed for power tool applications bonding with Nylon and formulated based on hydrogenated styrenic block copolymer (SEBS).

General			
Material Status	• Commercial: Active		
Regional Availability	• Asia Pacific		
Recycled Content	• Post-Consumer (PCR), 30%		
Features	• Specialty Grade		
Uses	• Consumer Applications	• Overmolding	• Power/Other Tools
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 / Specific Gravity	1.07	1.07	ASTM D792
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength [2, 3] (Break, 73°F (23°C))	335 psi	2.31 MPa	ASTM D412
Tensile Elongation [2, 3] (Break, 73°F (23°C))	520 %	520 %	ASTM D412
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Durometer Hardness (Shore A, 10 sec)	40	40	ASTM D2240
Fill Analysis	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Apparent Viscosity			ASTM D3835
392°F (200°C), 11200 sec^-1	24.2 Pa·s	24.2 Pa·s	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Rear Temperature	320 to 392 °F	160 to 200 °C
Middle Temperature	356 to 482 °F	180 to 250 °C
Front Temperature	392 to 518 °F	200 to 270 °C
Nozzle Temperature	392 to 518 °F	200 to 270 °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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