reSound™ OM 5530-55N

Thermoplastic Elastomer

Key Characteristics

Product Description		
reSound™ OM 5530-55N is a specialty bio-renewable thermoplastic elastomer material designed for overmolding onto ABS, PC, PC/ABS and Copolyester.		
General		
Material Status	• Commercial: Active	
Regional Availability	• Asia Pacific	
Features	• Specialty Grade	
Uses	• Consumer Applications • Overmolding	• Packaging • Sporting Goods
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	ASTM D792
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength [2, 3] (Break, 73°F (23°C))	1800 psi	12.4 MPa	ASTM D412
Tensile Elongation [2, 3] (Break, 73°F (23°C))	400 %	400 %	ASTM D412
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Durometer Hardness (Shore A, 10 sec)	55	55	ASTM D2240

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	158 to 194 °F	70 to 90 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Rear Temperature	340 to 360 °F	171 to 182 °C
Front Temperature	370 to 420 °F	188 to 216 °C
Nozzle Temperature	380 to 430 °F	193 to 221 °C
Mold Temperature	55 to 85 °F	13 to 29 °C
Back Pressure	0.00 to 100 psi	0.00 to 0.689 MPa
Screw Speed	50 to 100 rpm	50 to 100 rpm

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.

OM 5530-55N should not be left in the barrel for extended idle periods(greater than 5 minutes).

Notes

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

[2] Die C

[3] 2 hr

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