# reSound™ OM 5530-80N

## Thermoplastic Elastomer

### Key Characteristics

| Product Description | | |
|---|---|---|
| reSound™ OM 5530-80N 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<br>• Overmolding | • Packaging<br>• 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 | 1.12 | 1.12 | ASTM D792 |
| **Elastomers** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Tensile Strength [2, 3] (Break, 73°F (23°C)) | 2320 psi | 16.0 MPa | ASTM D412 |
| Tensile Elongation [2, 3] (Break, 73°F (23°C)) | 950 % | 950 % | ASTM D412 |
| **Hardness** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Durometer Hardness (Shore A, 10 sec) | 78 | 78 | ASTM D2240 |

### Processing Information

| Injection | Typical Value (English) | Typical Value (SI) |
|---|---|---|
| Drying Temperature | 176 to 194 °F | 80 to 90 °C |
| Drying Time | 2.0 to 4.0 hr | 2.0 to 4.0 hr |
| Rear Temperature | 320 to 356 °F | 160 to 180 °C |
| Front Temperature | 338 to 374 °F | 170 to 190 °C |
| Nozzle Temperature | 356 to 392 °F | 180 to 200 °C |
| Mold Temperature | 50 to 77 °F | 10 to 25 °C |
| Back Pressure | 0.00 to 100 psi | 0.00 to 0.690 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 5530-80N 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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