

N00M-00 Polypropylene Impact Copolymer

N00M-00 is a fractional melt flow rate, medium term heat aging high impact copolymer polypropylene for blow molding, pipe, tubing and sheet extrusion applications. It offers a superior balance of stiffness and impact strength as compared to competitive impact copolymers of similar melt flow rate. This material meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520. This product is not recommended for taste or odor sensitive applications.

Typical Properties¹

| | Values | | ASTM Method |
|------------------------------------|---------------|------------------------|-------------|
| | English Units | SI Units | |
| Resin | | | |
| Density | — | 0.902 g/cc | D792 |
| Melt Flow Rate, 230°C/2.16 kg | — | 0.45 g/10 min | D1238 |
| Injection Molded Sample | | | |
| Tensile Strength (2 in/min) | | | D638 |
| @ Yield | 3,660 psi | 25.3 MPa | |
| @ Break | 3,345 psi | 23.1 MPa | |
| Elongation (2 in/min) | | | D638 |
| @ Yield | 9.56% | 9.56% | |
| @ Break | 482% | 482% | |
| Flexural Modulus | | | D790A |
| 1% Secant | 172,300 psi | 1,188 MPa | |
| Notched Izod Impact Strength | | | D256 |
| @ 23 C | - | No Break | |
| @ - 20 C | 2.3 ft-lbf/in | 12.1 kJ/m ² | |
| Hardness | | | |
| Rockwell R | 77 | 77 | D785 |
| Vicat Softening Point | 304 F | 151 C | D1525 |
| Heat Deflection Temperature | | | |
| @ 66 psi (455 kPa) | 190 F | 88 C | |
| @ 264 psi (1,820 kPa) | 136 F | 58 C | |
| Brittleness Temperature | - 70 C | -70 C | D746 |
| Gloss Units, 60° angle | 56 | 56 | D2457 |
| Instrumented Impact | | | |
| @ 23 C | Ductile | Ductile | |
| @-20 C | Ductile | Ductile | |
| UL Listing designations | | | |
| Relative Thermal Index °C | | 120 | |
| Flammability Classification | | HB | UL94 |

¹ Typical properties will vary and are not to be used for specifications.