

N02G-00 Polypropylene Impact Copolymer

N02G-00 is a low melt flow rate, high-impact copolymer polypropylene for sheet extrusion and thick wall injection molding applications. It offers a superior balance of stiffness and impact strength as compared to competitive impact copolymers of similar melt flow rate range. Typical applications include appliances, automotive, compounding, consumer products, housewares, and rigid packaging. Benefits include enhanced impact and stiffness. This material meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520.

Typical Properties¹

| | Values | | ASTM Method |
|--------------------------------|----------------------------|-----------------------|-------------|
| | English Units | SI Units | |
| Resin | | | |
| Density | — | 0.900 g/cc | D792 |
| Melt Flow Rate, 230°C/2.16 kg | — | 2.5 g/10 min | D1238 |
| Injection Molded Sample | | | |
| Tensile Strength (2 in/min) | | | D638 |
| @ Yield | 3,697 psi | 25.5 MPa | |
| @ Break | 2,600 psi | 17.9 MPa | |
| Elongation (2 in/min) | | | D638 |
| @ Yield | — | 6.7 % | |
| @ Break | — | 321 % | |
| Flexural Modulus | | | D790A |
| 1% Secant | 172,750 psi | 1,207 MPa | |
| Notched Izod Impact Strength | | | D256 |
| @ 23 C | - | No Break | |
| @ -20 C | 1.6 ft-lb _f /in | 8.2 kJ/m ² | |
| Hardness | | | |
| Rockwell R | — | 86 | D785 |
| Vicat Softening Point | 304 °F | 151 °C | D1525 |
| Deflection Temperature | | | |
| @ 66 psi (455 kPa) | 202 °F | 94 °C | D648 |
| @ 264 psi (1,820 kPa) | 126 °F | 52 °C | |
| Gloss at 60° angle | — | 69 | D2457 |
| Instrumented Impact | | | |
| @ 23 C | — | Ductile | D3763 |
| @ -20 C | — | Ductile | |

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