

H02C-01 Polypropylene Homopolymer

H02C-01 is a low flow rate, clarified homopolymer designed for extrusion, thermoforming, blow molding, and rigid packaging applications that require good see-through clarity combined with good heat resistance. Typical applications include thermoformed cups, containers and lidding; extrusion blow molded containers and bottles, injection stretch blow molded containers and bottles, extruded sheet and profiles. 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 | — | 0.908 g/cc | D792 |
| Melt Flow Rate 230°C/2.16 kg | — | 2.3 g/10 min | D1238 |
| Injection Molded Samples | | | |
| Tensile Strength (2 in/min) | | | D638 |
| @ Yield | 5,300 psi | 36.5 MPa | |
| @ Break | 2,600 psi | 18.5 MPa | |
| Elongation (2 in/min) | | | D638 |
| @ Yield | 9.1 % | 9.1 % | |
| @ Break | 120 % | 120 % | |
| Flexural Modulus | | | D790A |
| 1% Secant | 230,000 psi | 1,585 MPa | |
| Notched Izod Impact Strength | | | D256 |
| @ 23 C | 1.0 ft.-lbf/in | 5.25 kJ/m ² | |
| Gloss at 60° angle (Gloss Units) | 96 | 96 | D2457 |
| Haze, @ 23 C, 50-mil (1.3mm) plaque | | | D1003 |
| % Diffuse Transmittance | 25 % | 25 % | |
| Hardness | | | D785 |
| Rockwell R | 97 | 97 | |
| Heat Deflection Temperature | | | D648 |
| @ 66 psi (455 kPa) | 224 F | 107 C | |
| Vicat Softening Point | 302 F | 150 C | D1525 |

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