



INEOS PP H02C-00

INEOS Olefins & Polymers USA - Polypropylene Homopolymer

Tuesday, November 5, 2019

General Information

Product Description

H02C-00 is a low flow rate, high clarity, nucleated 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.

General

| | | | |
|-------------------|---|--|--|
| Material Status | <ul style="list-style-type: none"> Commercial: Active | | |
| Availability | <ul style="list-style-type: none"> North America | | |
| Additive | <ul style="list-style-type: none"> Nucleating Agent | | |
| Features | <ul style="list-style-type: none"> Food Contact Acceptable High Clarity | <ul style="list-style-type: none"> Homopolymer Low Flow | <ul style="list-style-type: none"> Medium Heat Resistance Nucleated |
| Uses | <ul style="list-style-type: none"> Blow Molding Applications Bottles Containers | <ul style="list-style-type: none"> Cups Lids Profiles | <ul style="list-style-type: none"> Rigid Packaging Sheet Thermoforming Applications |
| Agency Ratings | <ul style="list-style-type: none"> EC 1907/2006 (REACH) FDA 21 CFR 177.1520 | | |
| RoHS Compliance | <ul style="list-style-type: none"> Contact Manufacturer | | |
| Forms | <ul style="list-style-type: none"> Pellets | | |
| Processing Method | <ul style="list-style-type: none"> Blow Molding Extrusion Extrusion Blow Molding | <ul style="list-style-type: none"> Injection Stretch Blow Molding Profile Extrusion Sheet Extrusion | <ul style="list-style-type: none"> Thermoforming |

ASTM & ISO Properties¹

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|-----------------------|-------------|
| Density / Specific Gravity | 0.911 | | ASTM D792 |
| Melt Mass-Flow Rate (230°C/2.16 kg) | 2.3 | g/10 min | ASTM D1238 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength ² (Yield, Injection Molded) | 5300 | psi | ASTM D638 |
| Tensile Strength ² (Break, Injection Molded) | 2600 | psi | ASTM D638 |
| Tensile Elongation ² (Yield, Injection Molded) | 9.1 | % | ASTM D638 |
| Tensile Elongation ² (Break, Injection Molded) | 120 | % | ASTM D638 |
| Flexural Modulus - 1% Secant (Injection Molded) | 240000 | psi | ASTM D790A |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (73°F, Injection Molded) | 0.50 | ft·lb/in | ASTM D256 |
| Notched Izod Impact (Area) (73°F, Injection Molded) | 1.33 | ft·lb/in ² | ASTM D256 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale, Injection Molded) | 99 | | ASTM D785 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 66 psi, Unannealed, Injection Molded | 230 | °F | |
| Vicat Softening Temperature | 309 | °F | ASTM D1525 |
| Optical | Nominal Value | Unit | Test Method |
| Gloss (60°) | 96 | | ASTM D2457 |
| Haze ³ (50.0 mil) | 30.0 | % | ASTM D1003 |

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Notes

¹ Typical properties: these are not to be construed as specifications.

² 2.0 in/min

³ 23°C