



## INEOS PP H12Z-03

INEOS Olefins & Polymers USA - Polypropylene Homopolymer

Tuesday, November 5, 2019

### General Information

#### Product Description

H12Z-03 is a nucleated homopolymer polypropylene that also contains an antistat and a lubricant to provide optimal balance between processing and surface appearance. It is designed for general purpose injection molding. Typical applications include consumer products and rigid packaging. It meets the requirements of the U.S. Food and Drug Administration as specified in 21CFR 177.1520.

#### General

|                   |                                                                                  |
|-------------------|----------------------------------------------------------------------------------|
| Material Status   | • Commercial: Active                                                             |
| Availability      | • North America                                                                  |
| Additive          | • Antistatic • Lubricant • Nucleating Agent                                      |
| Features          | • Antistatic • Homopolymer • Nucleated<br>• Food Contact Acceptable • Lubricated |
| Uses              | • Consumer Applications • General Purpose • Rigid Packaging                      |
| Agency Ratings    | • EC 1907/2006 (REACH) • FDA 21 CFR 177.1520                                     |
| RoHS Compliance   | • Contact Manufacturer                                                           |
| Forms             | • Pellets                                                                        |
| Processing Method | • Injection Molding                                                              |

### ASTM & ISO Properties <sup>1</sup>

| Physical                                                                  | Nominal Value | Unit                  | Test Method |
|---------------------------------------------------------------------------|---------------|-----------------------|-------------|
| Density / Specific Gravity                                                | 0.913         |                       | ASTM D792   |
| Melt Mass-Flow Rate (230°C/2.16 kg)                                       | 12            | g/10 min              | ASTM D1238  |
| Mechanical                                                                | Nominal Value | Unit                  | Test Method |
| Tensile Strength <sup>2</sup> (Yield, Injection Molded)                   | 5500          | psi                   | ASTM D638   |
| Tensile Strength <sup>2</sup> (Break, Injection Molded)                   | 2600          | psi                   | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Yield, Injection Molded)                 | 8.2           | %                     | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Break, Injection Molded)                 | 71            | %                     | ASTM D638   |
| Flexural Modulus - 1% Secant (Injection Molded)                           | 275000        | psi                   | ASTM D790A  |
| Impact                                                                    | Nominal Value | Unit                  | Test Method |
| Notched Izod Impact (73°F, Injection Molded)                              | 0.72          | ft-lb/in              | ASTM D256   |
| Notched Izod Impact (Area) (73°F, Injection Molded)                       | 1.80          | ft-lb/in <sup>2</sup> | ASTM D256   |
| Hardness                                                                  | Nominal Value | Unit                  | Test Method |
| Rockwell Hardness (R-Scale, Injection Molded)                             | 104           |                       | ASTM D785   |
| Thermal                                                                   | Nominal Value | Unit                  | Test Method |
| Deflection Temperature Under Load<br>66 psi, Unannealed, Injection Molded | 244           | °F                    | ASTM D648   |
| Optical                                                                   | Nominal Value | Unit                  | Test Method |
| Gloss (60°)                                                               | 91            |                       | ASTM D2457  |

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 2.0 in/min