



# INEOS PP R35C-03

INEOS Olefins & Polymers USA - Polypropylene Random Copolymer

Tuesday, November 5, 2019

## General Information

### Product Description

R35C-03 is a high flow rate, ultra-high clarity, lubricated and antistatic random copolymer designed for high-speed injection molding of medium to thin walled parts requiring excellent clarity, fast cycle times and ease of de-nesting. Finished parts produced with R35C-03 will exhibit a bluish hue, giving a look of enhanced clarity. 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"> <li>Commercial: Active</li> </ul>  |   |  |
| Availability      | <ul style="list-style-type: none"> <li>North America</li> </ul>   |   |  |
| Additive          | <ul style="list-style-type: none"> <li>Antistatic</li> </ul>  | <ul style="list-style-type: none"> <li>Lubricant</li> </ul>   |  |
| Features          | <ul style="list-style-type: none"> <li>Antistatic</li> <li>Fast Molding Cycle</li> <li>Food Contact Acceptable</li> </ul> | <ul style="list-style-type: none"> <li>High Clarity</li> <li>High Flow</li> <li>Lubricated</li> </ul> | <ul style="list-style-type: none"> <li>Random Copolymer</li> </ul> |
| Uses              | <ul style="list-style-type: none"> <li>Thin-walled Parts</li> </ul>   |   |  |
| Agency Ratings    | <ul style="list-style-type: none"> <li>EC 1907/2006 (REACH)</li> <li>FDA 21 CFR 177.1520</li> </ul>                       |   |  |
| RoHS Compliance   | <ul style="list-style-type: none"> <li>Contact Manufacturer</li> </ul>  |   |  |
| Appearance        | <ul style="list-style-type: none"> <li>Clear/Transparent</li> </ul>   |   |  |
| Forms             | <ul style="list-style-type: none"> <li>Pellets</li> </ul>   |   |  |
| Processing Method | <ul style="list-style-type: none"> <li>Injection Molding</li> </ul>   |   |  |

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

| Physical  | Nominal Value | Unit                  | Test Method |
|---|---------------|-----------------------|-------------|
| Density / Specific Gravity  | 0.905         |                       | ASTM D792   |
| Melt Mass-Flow Rate (230°C/2.16 kg)                                       | 35            | g/10 min              | ASTM D1238  |
| Mechanical  | Nominal Value | Unit                  | Test Method |
| Tensile Strength <sup>2</sup> (Yield, Injection Molded)                   | 4260          | psi                   | ASTM D638   |
| Tensile Strength <sup>2</sup> (Break, Injection Molded)                   | 2410          | psi                   | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Yield, Injection Molded)                 | 14            | %                     | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Break, Injection Molded)                 | > 400         | %                     | ASTM D638   |
| Flexural Modulus - 1% Secant (Injection Molded)                           | 158000        | psi                   | ASTM D790A  |
| Impact  | Nominal Value | Unit                  | Test Method |
| Notched Izod Impact (73°F, Injection Molded)                              | 1.1           | ft·lb/in              | ASTM D256   |
| Notched Izod Impact (Area) (73°F, Injection Molded)                       | 2.74          | ft·lb/in <sup>2</sup> | ASTM D256   |
| Hardness  | Nominal Value | Unit                  | Test Method |
| Rockwell Hardness (R-Scale, Injection Molded)                             | 82            |                       | ASTM D785   |
| Thermal   | Nominal Value | Unit                  | Test Method |
| Deflection Temperature Under Load<br>66 psi, Unannealed, Injection Molded | 172           | °F                    | ASTM D648   |
| Vicat Softening Temperature   | 264           | °F                    | ASTM D1525  |
| Optical   | Nominal Value | Unit                  | Test Method |
| Gloss (60°, Injection Molded)   | 96            |                       | ASTM D2457  |
| Haze <sup>3</sup> (50.0 mil, Injection Molded)                            | 7.00          | %                     | ASTM D1003  |

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### Notes

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

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

<sup>3</sup> 23°C