

INEOS PP H05A-00

Polypropylene Homopolymer
INEOS Olefins & Polymers USA

Message:

Grade H05A-00 is an antistatic polypropylene homopolymer with crack resistance and low static charge used in injection molding and extrusion applications. Typical applications are consumer products, housewares, medical packaging, and rigid packaging. This grade has been recognized by UL for sustained use at 65 ° C and meets the requirements of the U.S. Food and Drug Administration specified in 21 CFR 177.1520 and is Drug Master File listed.

| General Information | | | |
|---|-------------------------|-------------------|-------------|
| UL YellowCard | E31830-230774 | | |
| Additive | Antistatic | | |
| Features | Antistatic | | |
| | Food Contact Acceptable | | |
| | Good Crack Resistance | | |
| | Homopolymer | | |
| Uses | Consumer Applications | | |
| | Household Goods | | |
| | Medical Packaging | | |
| | Rigid Packaging | | |
| Agency Ratings | DMF Unspecified Rating | | |
| | EC 1907/2006 (REACH) | | |
| | FDA 21 CFR 177.1520 | | |
| RoHS Compliance | Contact Manufacturer | | |
| Forms | Pellets | | |
| Processing Method | Extrusion | | |
| | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 0.911 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 5.1 | g/10 min | ASTM D1238 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 103 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength ¹ | | | ASTM D638 |
| Yield | 36.9 | MPa | |
| Break | 18.0 | MPa | |
| Tensile Elongation ² | | | ASTM D638 |

| | | | |
|--|---------------|-------------------|-------------|
| Yield | 9.2 | % | |
| Break | 140 | % | |
| Flexural Modulus - 1% Secant | 1720 | MPa | ASTM D790A |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C) | 41 | J/m | ASTM D256 |
| Notched Izod Impact (Area) (23°C) | 4.00 | kJ/m ² | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 104 | °C | ASTM D648 |
| RTI Elec (3.00 mm) | 65.0 | °C | UL 746 |
| RTI Imp (3.00 mm) | 65.0 | °C | UL 746 |
| RTI Str (3.00 mm) | 65.0 | °C | UL 746 |
| Flammability | Nominal Value | | Test Method |
| Flame Rating (3.00 mm) | HB | | UL 94 |
| Optical | Nominal Value | Unit | Test Method |
| Gloss (60°) | 93 | | ASTM D2457 |
| Haze ³ (1270 μm) | 73 | % | ASTM D1003 |
| NOTE | | | |
| 1. | 51 mm/min | | |
| 2. | 51 mm/min | | |
| 3. | 23°C | | |

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