

General Information
Product Description

L12N-00 is a medium melt flow rate, nucleated impact copolymer polypropylene for injection molding and compounding applications. It is especially formulated for high impact resistance, high flexural modulus, and excellent gloss. Applications include automotive, consumer products, housewares, and compounding. This material meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520.

General

| | | | |
|-------------------|--|--|------------------------------|
| Material Status | • Commercial: Active | | |
| Availability | • North America | | |
| Additive | • Nucleating Agent | | |
| Features | • Food Contact Acceptable • High Gloss | • High Impact Resistance • Impact Copolymer | • Medium Flow • Nucleated |
| Uses | • Automotive Applications • Compounding | • Consumer Applications • Household Goods | |
| Agency Ratings | • EC 1907/2006 (REACH) | • FDA 21 CFR 177.1520 | |
| RoHS Compliance | • Contact Manufacturer | | |
| Forms | • Pellets | | |
| Processing Method | • Compounding | • Injection Molding | |

ASTM & ISO Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|-------------------|-------------|
| Density / Specific Gravity | 0.903 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 12 | g/10 min | ASTM D1238 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength ² (Yield) | 25.8 | MPa | ASTM D638 |
| Tensile Strength ² (Break) | 18.1 | MPa | ASTM D638 |
| Tensile Elongation ² (Yield) | 6.0 | % | ASTM D638 |
| Tensile Elongation ² (Break) | 120 | % | ASTM D638 |
| Flexural Modulus - 1% Secant | 1260 | MPa | ASTM D790A |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | | | ASTM D256 |
| -20°C | 64 | J/m | |
| 23°C | 190 | J/m | |
| Notched Izod Impact (Area) | | | ASTM D256 |
| -20°C | 6.00 | kJ/m ² | |
| 23°C | 18.9 | kJ/m ² | |
| Instrumented Impact, Ductility | | | ASTM D3763 |
| -20°C | | Ductile | |
| 23°C | | Ductile | |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 88 | | ASTM D785 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, Unannealed | 102 | °C | |

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INEOS PP L12N-00

INEOS Olefins & Polymers USA - Polypropylene Impact Copolymer

| Thermal | Nominal Value | Unit | Test Method |
|--|---------------|------|-------------|
| Deflection Temperature Under Load 1.8 MPa, Unannealed | 53.0 | °C | ASTM D648 |
| Vicat Softening Temperature | 148 | °C | ASTM D1525 |
| Optical | Nominal Value | Unit | Test Method |
| Gloss (60°) | 74 | | ASTM D2457 |

Notes

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

² 51 mm/min