



MARPOL® Homo 4.5

Marco Polo International, LLC - Polypropylene Homopolymer

Thursday, January 4, 2024

General Information

Product Description

Additives: None

Recommended Applications: Slit film, monofilament, and fibrillated tape applications requiring improved process stability.

Homo 4.5 complies with all applicable FDA regulations for food contact applications.

General

| | | | |
|-----------------|--|-----------------------------|-----------------|
| Material Status | • Commercial: Active | | |
| Availability | • Africa & Middle East • Asia Pacific | • Europe • Latin America | • North America |
| Features | • Additive Free | • Food Contact Acceptable | • Homopolymer |
| Uses | • Film | • Monofilaments | • Tape |
| Agency Ratings | • FDA Food Contact | | |

ASTM & ISO Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|-------------------|-------------|
| Density | 0.905 | g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (230°C/2.16 kg) | 4.1 | g/10 min | ASTM D1238 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 1520 | MPa | ASTM D638 |
| Tensile Strength (Yield) | 34.5 | MPa | ASTM D638 |
| Tensile Elongation (Yield) | 12 | % | ASTM D638 |
| Flexural Modulus | 1380 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C) | 32 | J/m | ASTM D256A |
| Unnotched Izod Impact (23°C) | 910 | J/m | ASTM D4812 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load 0.45 MPa, Unannealed | 107 | °C | ASTM D648 |
| Melting Temperature | 73.9 | °C | |

Notes

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