

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.

| Material Status | Commercial: Active | | |
|-----------------|---|--|---------------------------------|
| Availability | Africa & Middle East Asia Pacific | EuropeLatin America | North America |
| eatures | Additive Free | Food Contact Acceptable | Homopolymer |
| Ises | • 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 | | | ASTM D648 | |
| 0.45 MPa, Unannealed | 107 | °C | | |
| Melting Temperature | 73.9 | °C | | |

Notes

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



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