Technical Data Sheet

# *Pro-fax* HP423M

Polypropylene, Homopolymer

## Product Description

*Pro-fax* HP423M is a polypropylene homopolymer available in pellet form. This resin is typically used in cast film applications. It is formulated with slip additive.

## Regulatory Status

For regulatory compliance information, see *Pro-fax* HP423M Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

| | |
|---|---|
| **Status** | Commercial: Active |
| **Availability** | North America |
| **Application** | Clarity Film; Foamed Sheet; Food Packaging Film; Lamination Film; Nonwovens |
| **Market** | Flexible Packaging |
| **Processing Method** | Cast Film; Extrusion Flat-die; Staple Fiber |
| **Attribute** | Good Optical Properties; High Clarity; High Gloss; High Slip; Low Coefficient of Friction |

| Typical Properties | Nominal Value | English Units | Nominal Value | SI Units | Test Method |
|---|---|---|---|---|---|
| **Physical** | | | | | |
| Melt Flow Rate, (230 °C/2.16 kg) | 8.5 | g/10 min | 8.5 | g/10 min | ASTM D1238 |
| Density, (23 °C) | 0.90 | g/cm³ | 0.90 | g/cm³ | ASTM D792 |
| **Mechanical** | | | | | |
| Flexural Modulus | | | | | |
| (0.05 in/min, 1% Secant, Procedure A) | 185000 | psi | | | ASTM D790 |
| (1.3 mm/min, 1% Secant, Procedure A) | | | 1280 | MPa | ASTM D790 |
| Tensile Strength at Yield | | | | | |
| (2 in/min) | 4680 | psi | | | ASTM D638 |
| (50 mm/min) | | | 32.2 | MPa | ASTM D638 |
| Tensile Elongation at Yield | 11 | % | 11 | % | ASTM D638 |
| **Impact** | | | | | |
| Notched Izod Impact Strength | | | | | |
| (73 °F, Method A) | 0.9 | ft-lb/in | | | ASTM D256 |
| (23 °C, Method A) | | | 43 | J/m | ASTM D256 |
| **Thermal** | | | | | |
| Deflection Temperature Under Load | | | | | |
| (66 psi, Unannealed) | 190 | °F | | | ASTM D648 |
| (0.45 MPa, Unannealed) | | | 88 | °C | ASTM D648 |

## Notes

These are typical property values not to be construed as specification limits.

## Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

## Company Information

For further information regarding the LyondellBasell company, please visit http://www.lyb.com/.

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