

Alathon

L5332CP

High Density Polyethylene
Profile Extrusion Grade

Melt Index 0.32 Density 0.953



Applications

Alathon L5332CP is a high density polyethylene resin typically used by customers for corrugated pipe, conduit and profile extrusion applications. This product meets the stress crack resistance requirement of AASHTO M294. It exhibits excellent processing stability and high crush resistance. L5332CP conforms to ASTM D 3350 cell classification 435500A.

Regulatory Status

L5332CP meets the requirements of the Food and Drug Administration regulation 21 CFR 177.1520. This regulation allows the use of this olefin polymer in "...articles or components of articles intended for use in contact with food..." Specific limitations or conditions of use may apply. Contact your Equistar product safety representative for more information.

Processing Techniques

Specific recommendations for processing L5332CP can only be made when the processing conditions, equipment and end use are known.

Typical Properties

| Property | Nominal Value | Units | ASTM Test Method |
|--------------------------------------|---------------|----------|------------------|
| Melt Index | 0.32 | g/10 min | D1238 |
| Density | 0.953 | g/cc | D1505 |
| Tensile Strength @ Yield | 4,000 | psi | D638 |
| Elongation @ Yield | 8 | % | D638 |
| Elongation @ Break | >800 | % | D638 |
| Flexural Modulus (2% Secant) | 160,000 | psi | D790 |
| Tensile Impact | 190 | ft-lb/in | D1822 |
| Heat Deflection Temperature @ 66 psi | 69 | °C | D648 |
| Hardness, Shore D | 66 | | D2240 |
| Notched Constant Ligament Stress | > 35 | hrs | F2136 |
| Oxidation Induction Time @ 200°C | > 40 | minutes | D3895 |
| DSC Induction Temperature | > 220 | °C | D3350 |

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

LyondellBasell markets this product through the following entities:

Equistar Chemicals, LP
Basell Sales & Marketing Company B.V.
Basell Asia Pacific Limited
Basell International Trading FZE
LyondellBasell Australia Pty Ltd

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This product(s) may not be used in:

- (i) any U.S. FDA Class I, Health Canada Class I, and/or European Union Class I medical devices, without prior notification to Seller for each specific product and application; or
- (ii) the manufacture of any of the following, without prior written approval by Seller for each specific product and application: U.S. FDA Class II Medical Devices; Health Canada Class II or Class III Medical Devices; European Union Class II Medical Devices; film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned medical devices; packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration; and tobacco related products and applications. Additionally, the product(s) may not be used in: (i) U.S. FDA Class III Medical Devices; Health Canada Class IV Medical Devices; European Class III Medical Devices; (ii) applications involving permanent implantation into the body; (iii) life-sustaining medical applications; and (iv) lead, asbestos or MTBE related applications. All references to U.S. FDA, Health Canada, and European Union regulations include another country's equivalent regulatory classification.

Users should review the applicable Material Safety Data Sheet before handling the product.

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