Algoflon® L206
polytetrafluoroethylene

Algoflon® L206 a white PTFE micronized powder produced from dispersion polymerization comprising loose agglomerates of sub-micon sized primary particles. Algoflon® L206 can be de-agglomerated to sub-micron particle size by the application of shear providing a better dispersion and distribution of the PTFE particles in the application.

Designed for use in critical engineering and high end performance elastomers to improve abrasion and tear resistance, Algoflon® L206 is used as well in high performance coatings to improved non-stick properties, mar and abrasion resistance.

Main features are:
- Improved lubricity
- Increased (hot) tear strength
- Better flex life
- Reduced friction and wear

General

Material Status
- Commercial: Active

Availability
- Asia Pacific
- Europe
- North America

Uses
- Additive

Appearance
- White

Forms
- Powder

Physical

<table>
<thead>
<tr>
<th>Property</th>
<th>Typical Value</th>
<th>Unit</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average Particle Size</td>
<td>5.0</td>
<td>µm</td>
<td>Internal Method</td>
</tr>
<tr>
<td>Bulk Density</td>
<td>325</td>
<td>g/l</td>
<td>ASTM D4895</td>
</tr>
<tr>
<td>Specific Surface Area</td>
<td>&gt; 7.5</td>
<td>m²/g</td>
<td>Internal Method</td>
</tr>
</tbody>
</table>

Thermal

<table>
<thead>
<tr>
<th>Property</th>
<th>Typical Value</th>
<th>Unit</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peak Melting Temperature</td>
<td>325 to 335</td>
<td>°C</td>
<td>ASTM D3418</td>
</tr>
</tbody>
</table>

Additional Information

<table>
<thead>
<tr>
<th>Property</th>
<th>Typical Value</th>
<th>Unit</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grind in Oil - NPIRI</td>
<td>1.50</td>
<td></td>
<td>NPIRI</td>
</tr>
</tbody>
</table>
Processing

- Besides its main function as a wear additive, Algoflon® L206 can be used at low concentration to improve mold release properties.

- Internal or open mixers (e.g. Banbury or two-roll mixers) are normally used to allow a good distribution of Algoflon® L206 in the elastomeric compound. Typically 5 to 15 % can be added to elastomeric compounds to achieve the desired properties. Additional fillers are normally included with Algoflon® L micronized PTFE during the blending process. The resulting elastomeric composition can then be processed under normal conditions.

Storage and Handling

- The usual precautions for safe storage and handling of Algoflon® L206 should be taken according to material safety documentation and experience. There will be no chemical deterioration of the Algoflon® L206 during proper storage.

- Shelf life of Algoflon® L206 micronized powders will vary depending upon whether the recommended storage conditions are maintained and whether the material remains free from foreign contamination during storage time (not exposed to dirt, dust, water or other chemicals). The material should remain sealed in the original containers and storage conditions should provide for protection from temperature extremes as well as rain, snow or other wet environments (or such conditions which may damage the storage containers in which the product is stored).

Safety and Toxicology

- Before using PTFE Algoflon® L micronized powders consult the product Material Safety Data Sheet and follow all label directions and handling precautions.

- As with all PTFE materials, handling and processing should only be carried out in well ventilated areas. Vapor extractor units should be installed above processing equipment. Fumes must not be inhaled and eye and skin contact ought to be avoided. In case of skin contact wash with soap and water. In case of eye contact flush with water immediately and seek medical help. Do not smoke in areas contaminated with powder, vapor or fumes. See Material Safety Data Sheet for detailed advice on waste disposal methods.

Packaging

- Algoflon® L206 is packaged in 20 kg non returnable drums. Each drum has one bag liner made of polyethylene resin.

Notes

Typical properties: these are not to be construed as specifications.
Safety Data Sheets (SDS) are available by emailing us or contacting your sales representative. Always consult the appropriate SDS before using any of our products.

Neither Solvay Specialty Polymers nor any of its affiliates makes any warranty, express or implied, including merchantability or fitness for use, or accepts any liability in connection with this product, related information or its use. Some applications of which Solvay’s products may be proposed to be used are regulated or restricted by applicable laws and regulations or by national or international standards and in some cases by Solvay’s recommendation, including applications of food/feed, water treatment, medical, pharmaceuticals, and personal care. Only products designated as part of the Solviva® family of biomaterials may be considered as candidates for use in implantable medical devices. The user alone must finally determine suitability of any information or products for any contemplated use in compliance with applicable law, the manner of use and whether any patents are infringed. The information and the products are for use by technically skilled persons at their own discretion and risk and does not relate to the use of this product in combination with any other substance or any other process. This is not a license under any patent or other proprietary right.

All trademarks and registered trademarks are property of the companies that comprise the Solvay Group or their respective owners.

© 2019 Solvay Specialty Polymers. All rights reserved.