Adstif HA612M

Polypropylene, High Crystallinity

Product Description

Adstif HA612M is a high crystallinity polypropylene homopolymer with an extremely high stiffness, good transparency and outstanding high temperature performances. It is especially designed for cast film applications where high rigidity, transparency and very good thermal characteristics are required.
Adstif HA612M is particularly recommended for the production of coex film for Twist Wrapping on high speed packaging lines. Other applications include flowers and textile packaging, sterilizable and pasteurizable food packaging.
Adstif HA612M does not contain neither slip nor antiblocking agents and is suitable for metallisable films. It is Calcium Stearate free.

For regulatory information please refer to *Adstif* HA612M Product Stewardship Bulletin (PSB).

Product Characteristics

Status	Commercial: Active
Test Method used	ISO ASTM
Availability	Europe, Africa-Middle East
Processing Methods	Cast Film, Double Bubble
Features	High Clarity, Crystalline, Homopolymer, High Rigidity , Ultra High Stiffness
Typical Customer Applications	Cast Film, Film, Food Packaging Film, Stationery Film, Twist Wrap Film

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.900	g/cm³
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	7.0	g/10 min
Mechanical			
Tensile Modulus (1 mm/min)	ISO 527-1, -2	1900	MPa
Tensile Stress at Yield (50 mm/min)	ISO 527-1, -2	38.0	MPa
Tensile Strain at Break	ISO 527-1, -2	20	%
Tensile Strain at Yield	ISO 527-1, -2	7.0	%
Hardness			
Shore hardness (Shore D)	ISO 868	72	
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	106	°C
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	158	°C

Additional Properties

Typical Film Properties of laboratory casting line:
Gloss 45°, ASTM D 2457, 50 µm, 69 units
Haze, ASTM D 1003, 50 µm, 5%
Tensile Young Modulus, ASTM D 882, 25 mm/min, 50 µm: 900 MPa
Stress at Yield, ASTM D 882, 500 mm/min, 50 µm, 22 MPa
Elongation at Yield, ASTM D 882, 500 mm/min, 50 µm, 7%
Stress at Break, ASTM D 882, 500 mm/min, 50 µm, 37 MPa
Elongation at Break, ASTM D 882, 500 mm/min, 50 µm, 860%

Notes

Typical properties; not to be construed as specifications.

used safely and legally.

SELLER MAKES NO WARRANTY; EXPRESS OR IMPLIED (INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY WARRANTY) OTHER THAN AS SEPARATELY AGREED TO BY THE PARTIES IN A CONTRACT.

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: (1) U.S. FDA Class II, Health Canada Class II or Class III, and/or European Union Class II Medical Devices; (2) film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned Medical Devices; (3) 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; (4) tobacco related products and applications; (5) electronic cigarettes and similar devices; and (6) pressure pipe or fittings that are considered a part or component of a nuclear reactor.

(iii) Additionally, the product(s) may not be used in: (1) U.S. FDA Class III, Health Canada Class IV, and/or European Class III Medical Devices; (2) applications involving permanent implantation into the body; (3) life-sustaining medical applications; and (4) 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.

Release Date: 28 May 2013