Technical Data Sheet

HD12500 LB

High-Density Polyethylene

PRODUCT DESCRIPTION

HD12500 LB is a high density butene-1 polyethylene. The product offers a balanced combination of physical and mechanical properties. Product made from HD12500 LB are resistant to aggressive environments, high rigidity and environmental stress crack resistance (ESCR).

TYPICAL APPLICATIONS

HD12500 LB is recommended for the production of technical and household articles by Extrusion and Blow Molding, including products in contact with food.

Properties	Conditions	Method	Typical values*	Units
Rheology				
Melt Flow Rate	190 °C/21.6 kg	ISO 1133	12	g/10 min
Physical				
Density	20 °C	ISO 1183	0.951	g/cm^3
Mechanical				
Tensile Strength at Break		ISO 527-2	30	MPa
Tensile Stress at Yield		ISO 527-2	23	MPa
Elongation at Break		ISO 527-2	700	%
Charpy Notched Impact Strength	23 °C	ISO 179-1	14	kJ/m^2
Notched Izod Impact Strength	23 °C	ISO 180	13	kJ/m^2
Environmental Stress-Cracking Resistance (ESCR)		ASTM D1693	>500	hours
Thermal				
Vicat Softening Point	10 N	ISO 306	127	°C

*The values given are typical values measured on the product. These values should not be considered as specification.

REACH Statement

Polymers are exempt of REACH registration. However, their raw materials which mean monomers and relevant additives have been registered.

PJSC «Sibur Holding» (and its subsidiaries) is committed to fully respect REACH legislation and to use only REACH compliant raw materials.

Safety

See MSDS

March 2023

Contact

PJSC «Sibur Holding»
Basic Polymers Division
3-16, Krzhizhanovskogo St.
117997, Moscow, Russian Federation
Tel.: +7 495 7775500
E-mail: servicedbp@sibur.ru

European Sales Office
Sibur International GmbH
Prinz Eugen Straße 8-10
1040, Vienna, Austria
Tel.: +43 1 370 8000
E-mail: polyolefins@sibur-int.com

Turkey Sales Office
Sibur Istanbul Uluslararasi Tic. Ltd. Sti
Ferko Signature Levent
Esentepe, Büyükdere Cd. No:175, 4.Kat / A25
34394 Şişli, İstanbul, Turkey
Tel: +90 212 919 0035
E-mail: polyolefins@sibur-int.com

Chinese Sales Office
SIBUR International Trading (Shanghai)Co., Ltd
Rm.74T71, SWFC, Century Ave.100 Pudong New Area, 200120, Shanghai, China
Tel: +86 021 2206 5066 ext 215
E-mail: serviceCN@sibur-int.com

The product(s) mentioned herein are not intended to be used for medical, pharmaceutical or healthcare applications and we do not support their use for such applications. To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication, however we do not assume any liability whatsoever for the accuracy and completeness of such information. PJSC «Sibur Holding» (and its subsidiaries) makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.

It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products. No liability can be accepted in respect of the use of any PJSC «Sibur Holding» (and its subsidiaries) product in conjunction with any other products and/or materials. The information contained herein relates exclusively to our products when not used in conjunction with any other material unless as specifically provided for in the test methods stated above.

March 2023