Technical Data Sheet

PE HD10500 FE

High-Density Polyethylene

PRODUCT DESCRIPTION

PE HD10500 FE is a high molecular weight, high-density hexene copolymer with a broad molecular weight distribution. The product provides a good balance of easy processability and bubble stability with beneficial physical and mechanical properties. Films produced from this resin perform excellent stiffness and tensile strength.

TYPICAL APPLICATIONS

PE HD10500 FE is recommended for the production of general purpose thin films with high tensile strength and toughness, carrier bags, grocery sacks and liners. It is also used in multilayer flexible structures.

Properties	Conditions	Method	Typical values*	Units
Resin properties				
Melt Flow Rate	190 °C/21.6 kg	ISO 1133-1	10	g/10 min
Density		ISO 1183	0.950	g/cm^3
Properties measured on 15 µm film**				
Tensile Strength at Break	MD/TD	ISO 527-1	65/57	MPa
Tensile Stress at Yield	MD/TD	ISO 527-1	32/29	MPa
Elongation at Break	MD/TD	ISO 527-1	400/450	%
Dart Drop Impact Strength		ASTM D1709	150	g
Tear Strength	23 °C	ASTM D1922	8	g/25 µm

*The values given are typical values measured on the product. These values should not be considered as specification.
**Properties are measured on 15 µm gauge films with a blow up ratio of 5 and a neck height of 8D.

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

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