

SIBUR

Technical Data Sheet PE LL09211 FE Linear Low-Density Polyethylene

PRODUCT DESCRIPTION

LL09211 FE is a butene linear low-density polyethylene containing antiblock and slip additives. The product offers an advantageous combination of good processability and bubble stability with balanced mechanical properties. Films produced from this resin show excellent puncture resistance, high tensile strength and improved sealing performance.

TYPICAL APPLICATIONS

LL09211 FE is recommended for the production heavy duty sacks, agricultural films, liners, carrier bags, frozen food packaging, lamination, coextruded films and industrial packaging. It is suitable for blending with other polyethylene resins, such as LDPE or HDPE.

Properties	Conditions	Method	Typical values*	Units
Resin properties				
Melt Flow Rate	190 °C/2.16 kg	ISO 1133-1	0.9	g/10 min
Density		ISO 1183	0.920	g/cm ³
Properties measured on 38 µm film**				
Tensile Strength at Break	MD/TD	ISO 527-1	39/-	MPa
Tensile Stress at Yield	MD/TD	ISO 527-1	9/-	MPa
Elongation at Break	MD/TD	ISO 527-1	530/-	%
Tear Strength	MD/TD	ASTM D1922	130/260	g/25 µm
Dart Drop Impact Strength		ASTM 1709	120	g
Haze		ASTM D1003	16	%
Gloss		ASTM D2457	50	%
Thermal				
Vicat Softening Temperature	10 N	ISO 306	100	°C

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

** Properties were measured on film extruded at a blow up ratio 2:1 with a melt temperature of 225 °C.

REACH Statement

September 2023