

Producer: Saudi Basic Industries Corporation (Sabic) /Saudi Arabia

SABIC® LDPE 2100TN00

Description:

Low density polyethylene for Blown film.

SABIC® LDPE 2100TN00 is a grade with excellent toughness and outstanding biaxial shrink properties. The material contains no additives, has a very low energy consumption during processing and has excellent draw down ability.

Typical Applications:

SABIC® LDPE 2100TN00 is a heavy duty film grade suitable for applications like shrink hoods, industrial sacks, carrier bags and liners.

Film properties:

Film properties have been measured at 50 µm films with a BUR of 3. Films have been produced on Kiefel IBC film blown line at 200 kg/h. Die size 200 mm, die gap of 0.8 mm.

DESCRIPTION OF PROPERTIES	UNIT SI	VALUE	TEST METHOD
Polymer properties			
Melt index at 190 °C and 2.16 kg	g/10 min.	0,3	ISO 1133
Density	kg/m ³	921	ISO 1183 (A)
Optical properties			
Gloss (45°)	%	45	ASTM D 2457
Haze	%	12	ASTM D 1003A
Clarity	mV	50	SABIC method
Film properties			
Impact strength	kJ/m	30	ASTM D 4272
Tear strength TD	kN/m	30	ISO 6383-2
Tear strength MD	kN/m	30	ISO 6383-2
Tensile test film			ISO 527-3
Yield stress TD	Mpa	11	
Yield stress MD	Mpa	11	
Stress at break TD	Mpa	23	
Stress at break MD	Mpa	28	
Strain at break TD	%	> 500	
Strain at break MD	%	> 200	
Modulus of elasticity TD	Mpa	190	
Modulus of elasticity MD	Mpa	190	
Coefficient of friction	-	1.0	ASTM D 1894
Blocking	g	20	SABIC method
Re-blocking	g	10	SABIC method
Thermal properties			
Vicat softening temperature at 10 N (VST/A)	°C	93	ISO 306