

# SABIC® LLDPE C2820T

LINEAR LOW DENSITY POLYETHYLENE

## DESCRIPTION

SABIC® LLDPE C2820T is a butene linear low density polyethylene resin typically designed for easy processing and specially formulated for optimum thermal stability at high temperatures used in casting film extrusion. Cast film product from SABIC® LLDPE C2820T exhibit excellent optical properties, easy processing & energy saving, excellent thickness uniformity, improved machine output, well controlled die line. SABIC® LLDPE C2820T is TNPP free grade. This product is not intended for and must not be used in any pharmaceutical/medical applications.

## TYPICAL APPLICATIONS

SABIC® LLDPE C2820T resin is typically used for cast film, the film made by SABIC® LLDPE C2820T have outstanding optical, thickness variation, controlled gel and seal performance.

## TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
Density at 23°C	920	kg/m <sup>3</sup>	ASTM D1505
<b>Melt Flow Rate (MFR)</b>			
@ 190°C & 2.16 kg load	2.8	g/10 min	ASTM D1238
<b>OPTICAL PROPERTIES</b>			
Haze	7	%	ASTM D1003
<b>*Gloss</b>			
Gloss at 60°	91	%	ASTM D2457
<b>FILM PROPERTIES <sup>(1)</sup></b>			
<b>Tensile Properties</b>			
Strength at break, MD	33	MPa	ASTM D882
Strength at break, TD	28	MPa	ASTM D882
Elongation at break, MD	865	%	ASTM D882
Elongation at break, TD	918	%	ASTM D882
Secant modulus (1%), MD	167	MPa	ASTM D882
Secant modulus (1%), MD	164	MPa	ASTM D882
<b>Dart Impact Strength</b>			
Dart Impact Strength	70	g	ASTM D1709
<b>Elmendorf Tear Strength</b>			
MD	4.6	g/μm	ASTM D1922
TD	8.4	g/μm	ASTM D1922

(1) Properties have been measured by producing 40 μm casting film using 100% C2820T

## PROCESSING CONDITIONS

SABIC® LLDPE C2820T is extrudable with conventional cast film extrusion equipment. Minor machine modification may be required for optimum use. Cast film melt temperature: 210-270°C, chill roll temperature 28°C.