

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

Revision 20260304

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Density at 23°C	920	kg/m³	ASTM D1505
Melt Flow Rate (MFR)			
@ 190°C & 2.16 kg load	2.8	g/10 min	ASTM D1238
OPTICAL PROPERTIES			
Haze	7	%	ASTM D1003
Gloss			
Gloss at 60°	91	%	ASTM D2457
FILM PROPERTIES ⁽¹⁾			
Tensile Properties			
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%), TD	164	MPa	ASTM D882
Dart Impact Strength			
Dart Impact Strength	70	g	ASTM D1709
Elmendorf Tear Strength			
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.



STORAGE AND HANDLING

The resin should be stored in a manner to prevent a direct exposure to sunlight and / or heat. The storage area should also be dry and preferably do not exceed 50°C. SABIC would not give warranty to bad storage conditions that may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PE resin within 6 months after delivery.

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PETROMALL



petromall.net



info@petromall.ps



+970 599 2020 64



Hebron - Palestine

فلسطين - الخليل

+972 2 2233840

