



Adsyl 5 C 37 F

LyondellBasell Industries - Polyolefin

Tuesday, November 5, 2019

General Information

Product Description

Adsyl 5 C 37 F is an advanced polyolefin, specially designed for use as a sealing layer in co-extruded film applications.

This grade features a very low seal initiation temperature.

It contains slip and anti-block additives.

For regulatory information please refer to Adsyl 5 C 37 F Product Stewardship Bulletin (PSB).

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Antiblock • Slip		
Features	• Antiblocking • Heat Sealable	• Low Temperature Heat Sealability • Slip	
Uses	• Bi-axially Oriented Film • Cast Film • Film	• Food Packaging • Laminates • Packaging	• Shrink Wrap
Processing Method	• Bi-axially Oriented Film • Cast Film	• Coextruded Film • Double-Bubble Film	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.902		ASTM D792
Density	0.900	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (230°C/2.16 kg)	5.5	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.5	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	3100	psi	ASTM D638
Tensile Elongation (Yield)	13	%	ASTM D638
Flexural Modulus - 1% Secant ²	94000	psi	ASTM D790
Films	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-3/25
MD : 2.0 mil, Cast Film	40600	psi	
TD : 2.0 mil, Cast Film	40600	psi	
Tensile Stress			ISO 527-3/500
MD : Yield, 2.0 mil, Cast Film	2030	psi	
TD : Yield, 2.0 mil, Cast Film	2030	psi	
Tensile Stress			ISO 527-3/500
MD : Break, 2.0 mil, Cast Film	6530	psi	
TD : Break, 2.0 mil, Cast Film	5080	psi	
Tensile Elongation			ISO 527-3/500
MD : Break, 2.0 mil, Cast Film	900	%	
TD : Break, 2.0 mil, Cast Film	800	%	

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Films	Nominal Value	Unit	Test Method
Tensile Elongation			ISO 527-3/500
MD : Yield, 2.0 mil, Cast Film	17	%	
TD : Yield, 2.0 mil, Cast Film	15	%	
Seal Initiation Temperature	221	°F	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	1.6	ft-lb/in	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	145	°F	ASTM D648
Heat Deflection Temperature (66 psi, Unannealed)	144	°F	ISO 75-2/B
Vicat Softening Temperature	225	°F	ISO 306/A50
Melting Temperature	270	°F	
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 1.97 mil)	87		ASTM D2457
Haze (1.97 mil)	1.00	%	ASTM D1003

Notes

¹ Typical properties: these are not to be construed as specifications.

² 0.039 in/min