

Adsyl 5 C 33 F

Polyolefin
LyondellBasell Industries

Message:

Adsyl 5 C 33 F is an advanced polyolefin, specially designed for use as a sealing or metallized layer in co-extruded film applications. This grade features a very low seal initiation temperature and good optics. It does not contain slip or anti-block additives and it is Calcium Stearate free. For regulatory information please refer to Adsyl 5 C 33 F Product Stewardship Bulletin (PSB).

General Information	
Features	Low Temperature Heat Sealability
	Opticals
Uses	Bi-axially Oriented Film
	Cast Film
	Food Packaging
	Laminates
	Shrink Wrap
Forms	Pellets
Processing Method	Blown Film
	Cast Film
	Coextruded Film

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm ³	ASTM D792, ISO 1183/A
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.5	g/10 min	ASTM D1238, ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	21.4	MPa	ASTM D638
Tensile Elongation (Yield)	13	%	ASTM D638
Flexural Modulus - 1% Secant ¹	648	MPa	ASTM D790A
Films	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-3/25
MD : 50 µm, Cast Film	280	MPa	
TD : 50 µm, Cast Film	280	MPa	
Tensile Stress			ISO 527-3/500
MD : Yield, 50 µm, Cast Film	14.0	MPa	
TD : Yield, 50 µm, Cast Film	14.0	MPa	
MD : Break, 50 µm, Cast Film	45.0	MPa	
TD : Break, 50 µm, Cast Film	35.0	MPa	

Tensile Elongation			ISO 527-3/500
MD : Yield, 50 μm, Cast Film	17	%	
TD : Yield, 50 μm, Cast Film	15	%	
MD : Break, 50 μm, Cast Film	900	%	
TD : Break, 50 μm, Cast Film	800	%	
Seal Initiation Temperature	105	°C	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	85	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	62.8	°C	ASTM D648
0.45 MPa, Unannealed	62.0	°C	ISO 75-2/B
Vicat Softening Temperature	107	°C	ISO 306/A50
Melting Temperature	132	°C	ISO 11357-3
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.0 μm, Cast Film)	88		ASTM D2457
Haze (50.0 μm, Cast Film)	0.60	%	ASTM D1003
NOTE			
1.	1.0 mm/min		

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