# Adsyl 5 C 39 F

### Polyolefin

## LyondellBasell Industries

#### Message:

Adsyl 5 C 39 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.

It contains anti-block additives.

For regulatory information please refer to Adsyl 5 C 39 F Product Stewardship Bulletin (PSB).

General Information				
Additive	Antiblock			
Features	Antiblocking			
	Food Contact Acceptable			
	Low Temperature Heat Sealability			
Uses	Bi-axially Oriented Film			
	Cast Film			
	Laminates			
	Shrink Wrap			
Forms	Pellets	Pellets		
Processing Method	Blown Film			
	Cast Film			
	Coextruded Film			
Physical	Nominal Value	Unit	Test Method	
Physical Density	Nominal Value 0.900	Unit g/cm <sup>3</sup>	Test Method ISO 1183/A	
Density Melt Mass-Flow Rate (MFR) (230°C/2.16	0.900	g/cm³	ISO 1183/A	
Density	0.900			
Density Melt Mass-Flow Rate (MFR) (230°C/2.16	0.900	g/cm³	ISO 1183/A	
Density Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.900	g/cm <sup>3</sup> g/10 min	ISO 1183/A ISO 1133	
Density Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) Films	0.900 5.5 Nominal Value	g/cm <sup>3</sup> g/10 min Unit	ISO 1183/A ISO 1133	
Density Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) Films Film Thickness - Tested	0.900 5.5 Nominal Value	g/cm <sup>3</sup> g/10 min Unit	ISO 1183/A ISO 1133 Test Method	
Density Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) Films Film Thickness - Tested Tensile Modulus	0.900 5.5 Nominal Value 50	g/cm <sup>3</sup> g/10 min Unit µm	ISO 1183/A ISO 1133 Test Method	
Density Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) Films Film Thickness - Tested Tensile Modulus MD : 50 µm, Cast Film	0.900 5.5 Nominal Value 50 280	g/cm <sup>3</sup> g/10 min Unit µm MPa	ISO 1183/A ISO 1133 Test Method	
Density Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) Films Film Thickness - Tested Tensile Modulus MD : 50 µm, Cast Film TD : 50 µm, Cast Film	0.900 5.5 Nominal Value 50 280	g/cm <sup>3</sup> g/10 min Unit µm MPa	ISO 1183/A ISO 1133 Test Method ISO 527-3/25	
Density Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) Films Film Thickness - Tested Tensile Modulus MD : 50 μm, Cast Film TD : 50 μm, Cast Film Tensile Stress	0.900 5.5 Nominal Value 50 280 280	g/cm <sup>3</sup> g/10 min Unit µm MPa MPa	ISO 1183/A ISO 1133 Test Method ISO 527-3/25	
Density Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) Films Film Thickness - Tested Tensile Modulus MD : 50 μm, Cast Film TD : 50 μm, Cast Film Tensile Stress MD : Yield, 50 μm, Cast Film	0.900 5.5 Nominal Value 50 280 280 280	g/cm <sup>3</sup> g/10 min Unit µm MPa MPa	ISO 1183/A ISO 1133 Test Method ISO 527-3/25	
Density Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) Films Film Thickness - Tested Tensile Modulus MD : 50 μm, Cast Film TD : 50 μm, Cast Film Tensile Stress MD : Yield, 50 μm, Cast Film TD : Yield, 50 μm, Cast Film	0.900 5.5 Nominal Value 50 280 280 280 14.0	g/cm <sup>3</sup> g/10 min Unit µm MPa MPa MPa MPa	ISO 1183/A ISO 1133 Test Method ISO 527-3/25	
Density Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) Films Film Thickness - Tested Tensile Modulus MD : 50 μm, Cast Film TD : 50 μm, Cast Film Tensile Stress MD : Yield, 50 μm, Cast Film TD : Yield, 50 μm, Cast Film	0.900 5.5 Nominal Value 50 280 280 280 14.0 14.0 14.0	g/cm <sup>3</sup> g/10 min Unit Unit MPa MPa MPa MPa MPa MPa	ISO 1183/A ISO 1133 Test Method ISO 527-3/25	

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	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (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)	87		ASTM D2457
Haze (50.0 µm, Cast Film)	1.2	%	ASTM D1003

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