

Adflex Q 401 F

Polyolefin
LyondellBasell Industries

Message:

Adflex Q 401 F is a reactor TPO (thermoplastic polyolefin) manufactured using LyondellBasell's proprietary Catalloy process technology. It is designed for air quenched blown film applications. It contains slip and anti-block additives.

General Information			
Additive	Anti-caking agent slip agent		
Features	smoothness Perforation resistance Anti-caking property Good tear strength Heat resistance, high		
Uses	Films		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.890	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.65	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec)	49		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield, 23°C	15.0	MPa	ISO 527-2
Fracture, 23°C	21.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield, 23°C	27	%	ISO 527-2
Fracture, 23°C	> 800	%	ISO 527-2
Flexural Modulus (23°C)	480	MPa	ISO 178
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	
secant modulus			ASTM D882
MD: 50 µm, blown film	330	MPa	ASTM D882
TD: 50 µm, blown film	300	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 50 µm, blown film	18.0	MPa	ASTM D882

TD: Yield, 50 µm, blown film	15.0	MPa	ASTM D882
MD: Broken, 50 µm, blown film	68.0	MPa	ASTM D882
TD: Broken, 50 µm, blown film	48.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 50 µm, blown film	670	%	ASTM D882
TD: Broken, 50 µm, blown film	870	%	ASTM D882
Dart Drop Impact (50 µm, Blown Film)	550	g	ISO 7765-1
Elmendorf Tear Strength			ISO 6383-2
MD: 50 µm, blown film	0.045	N	ISO 6383-2
TD: 50 µm, blown film	0.094	N	ISO 6383-2
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180/1A
-40°C	4.0	kJ/m ²	ISO 180/1A
23°C	60	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	57.0	°C	ISO 75-2/B
Vicat Softening Temperature	108	°C	ISO 306/A50
Melting Temperature	164	°C	DSC
Additional Information	Nominal Value	Unit	Test Method
Heat Resistance	152	°C	Internal method

Film property values shown were determined on 50 µm (2.0 mil) thickness blown film extruded at 238°C (460°F), 2.5:1 BUR, with a 2 mm (80 mil) die gap.

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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