Adflex Q 300 F

Polyolefin

LyondellBasell Industries

Message:

Adflex Q 300 F is a thermoplastic polyolefin which has been developed for the extrusion or calendering of soft film. Adflex Q 300 F can also be used as impact/toughener modifier of polypropylene homopolymer in extrusion applications. In strapping applications for instance, it notably decreases fibrillation and improves the processability of the film at high drawing ratios. Adflex Q 300 F can be processed on any conventional PP extrusion line as well as on PVC calendars. It can also be blown on standard LDPE or LLDPE film lines.

For regulatory compliance information see the Adflex Q 300F Regulatory Affairs Product Stewardship Information/Certification Data Sheet (RAPIDS), which can be found on www.polymers.lyondellbasell.com.

General Information			
Features	Food Contact Acceptable		
	Good Flexibility		
Uses	Bags		
	Bottles		
	Film		
	Tubing		
Agency Ratings	FDA 21 CFR 177.2600		
Forms	Pellets		
Processing Method	Blow Molding		
	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.890	g/cm³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (230°C/2.16			
kg)	0.80	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	36		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/25
0.0500 mm ¹	200	MPa	
0.0500 mm ²	320	MPa	
Tensile Stress			
Yield	9.00	MPa	ISO 527-2
Break, 0.0500 mm ³	18.0	MPa	ISO 527-2/500
Break, 50.0 mm ⁴	27.0	MPa	ISO 527-2/500
Tensile Strain			
Across Flow : Yield, 0.0500 mm	28	%	ISO 527-2/500
Flow : Yield, 0.0500 mm	20	%	ISO 527-2/500

Break	500	%	ISO 527-2
Flexural Modulus	330	MPa	ISO 178
Elongation at Break ⁵			ISO 527-3
MD	870	%	
TD	850	%	
Tensile Strength at Yield ⁶			ISO 527-3
MD	11.0	MPa	
TD	8.00	MPa	
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	μm	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/1A
-50°C	40	kJ/m²	
-20°C	70	kJ/m²	
23°C	No Break		
23°C Thermal	No Break Nominal Value	Unit	Test Method
23°C Thermal Heat Deflection Temperature (0.45 MPa,	No Break Nominal Value	Unit	Test Method
23°C Thermal Heat Deflection Temperature (0.45 MPa, Unannealed)	No Break Nominal Value 50.0	Unit ℃	Test Method ISO 75-2/B
23°C Thermal Heat Deflection Temperature (0.45 MPa, Unannealed) Vicat Softening Temperature	No Break Nominal Value 50.0 75.0	Unit ℃ ℃	Test Method ISO 75-2/B ISO 306/A50
23°C Thermal Heat Deflection Temperature (0.45 MPa, Unannealed) Vicat Softening Temperature Optical	No Break Nominal Value 50.0 75.0 Nominal Value	Unit °C °C Unit	Test Method ISO 75-2/B ISO 306/A50 Test Method
23°C Thermal Heat Deflection Temperature (0.45 MPa, Unannealed) Vicat Softening Temperature Optical Gloss (45°, 50.0 μm)	No Break Nominal Value 50.0 75.0 Nominal Value 4	Unit °C °C Unit	Test Method ISO 75-2/B ISO 306/A50 Test Method ASTM D2457
23°C Thermal Heat Deflection Temperature (0.45 MPa, Unannealed) Vicat Softening Temperature Optical Gloss (45°, 50.0 μm) Haze (50.0 μm)	No Break Nominal Value 50.0 75.0 Nominal Value 4 95	Unit °C °C Unit %	Test Method ISO 75-2/B ISO 306/A50 Test Method ASTM D2457 ASTM D1003
23°C Thermal Heat Deflection Temperature (0.45 MPa, Unannealed) Vicat Softening Temperature Optical Gloss (45°, 50.0 μm) Haze (50.0 μm) NOTE	No Break Nominal Value 50.0 75.0 Nominal Value 4 95	Unit °C °C Unit %	Test Method ISO 75-2/B ISO 306/A50 Test Method ASTM D2457 ASTM D1003
23°C Thermal Heat Deflection Temperature (0.45 MPa, Unannealed) Vicat Softening Temperature Optical Gloss (45°, 50.0 μm) Haze (50.0 μm) NOTE 1.	No Break Nominal Value 50.0 75.0 Nominal Value 4 95 TD	Unit °C °C Unit %	Test Method ISO 75-2/B ISO 306/A50 Test Method ASTM D2457 ASTM D1003
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23°C Thermal Heat Deflection Temperature (0.45 MPa, Unannealed) Vicat Softening Temperature Optical Gloss (45°, 50.0 μm) Haze (50.0 μm) NOTE 1. 2. 3. 4. 5.	No Break Nominal Value S0.0 S0.0 Nominal Value Nominal Value Nominal Value S0.0 Nominal Value Nominal Value Nominal Value Nominal Value S00mm/min	Unit °C °C Unit %	Test Method ISO 75-2/B ISO 306/A50 Test Method ASTM D2457 ASTM D1003

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