Adflex Q 300 F

Advanced Polyolefin

Product Description

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 300 F Regulatory Affairs Product Stewardship Information/Certification Data Sheet (RAPIDS), which can be found on www.polymers.lyondellbasell.com.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, North America, Asia-Pacific, Australia/NZ, Africa-Middle East, Latin America
Processing Methods	Blown Film, Extrusion Blow Molding
Features	Good Flexibility
Typical Customer Applications	Agriculture Film, Bags & Pouches, Bottles For Consumer Goods, Bottles for Industrial Use, Collapsible Tubes, Film Wrap, Heavy Duty Packaging, Hygiene Film, Lamination Film, Peelable Film, Surface Protection Film

Typical Properties	Method	Value	Unit
Physical			
Density (Method A)	ISO 1183	0.89	g/cm³
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	0.80	g/10 min
Mechanical			
Tensile Stress at Yield	ISO 527-1, -2	9	MPa
Tensile Strain at Break	ISO 527-1, -2	500	%
Flexural modulus	ISO 178	330	MPa
Impact			
Notched izod impact strength	ISO 180		
(23 °C, Type 1, Notch A)		No break	
(- 20 °C, Type 1, Notch A)		70	kJ/m²
(-50 °C, Type 1, Notch A)		40	kJ/m²
Hardness			
Shore hardness (Shore D)	ISO 868	36	
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	50	°C
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	75	°C
Optical			
Haze (50 µm)	ASTM D 1003	95	%
Gloss (45°, 50 µm)	ASTM D 2457	4	

Additional Properties

Film properties obtained on blown film produced with laboratory line under internal standard conditions.

Tensile Young modulus, MD/TD, ISO 527-3, 25 mm/min, 50 µm: 320/200 MPa
Stress at Yield, MD/TD,ISO 527-3, 500 mm/min, 50 µm: 11/8 MPa
Elongation at Yield, MD/TD,ISO 527-3, 500 mm/min, 50 µm: 20/28 %
Stress at Break, MD/TD,ISO 527-3, 500 mm/min, 50 µm: 27/18 MPa
Elongation at Break, MD/TD, ISO 527-3, 500 mm/min, 50 µm: 870/850 %

Notes

Typical properties; not to be construed as specifications.