

## Adflex Q 100 F

### Advanced Polyolefin

#### Product Description

Adflex Q 100 F is a thermoplastic polyolefin, which is mainly used by our customers for the extrusion of blown film. It is also suitable for sheet extrusion.

Adflex Q 100 F features very high softness and very low modulus. It does not contain any slip or anti-blocking agents. Adflex Q 100 F is used for the production of soft hygienic film and heavy duty film, as well as for the modification of LDPE or LLDPE to increase mechanical characteristics, puncture resistance, and to allow further downgauging. It can be easily processed on conventional LDPE or LLDPE blown film lines.

For regulatory information please refer to Adflex Q 100 F Product Stewardship Bulletin (PSB).

#### Product Characteristics

<b>Status</b>	Commercial: Active
<b>Test Method used</b>	ISO
<b>Processing Methods</b>	Blown Film, Double Bubble, Extrusion Blow Molding
<b>Features</b>	Good Flexibility, Low Temperature Impact Resistance, Good Processability, Good Puncture Resistance , Soft, Good Tear Strength, Low Transparency
<b>Typical Customer Applications</b>	Agriculture Film, Bags & Pouches, Barrier Film, Blown Film, Breathable Film, Collapsible Tubes, Double Bubble Shrink Film, Film Wrap, Food Packaging Film, Heavy Duty Packaging, Hygiene Film, Lamination Film, Stretch Hood, Surface Protection Film

Typical Properties	Method	Value	Unit
<b>Physical</b>			
Density	ISO 1183	0.88	g/cm <sup>3</sup>
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	0.6	g/10 min
<b>Mechanical</b>			
Tensile Stress at Break	ISO 527-1, -2	10	MPa
Tensile Strain at Break	ISO 527-1, -2	> 400	%
Flexural modulus	ISO 178	100	MPa
<b>Impact</b>			
Notched izod impact strength	ISO 180		
(- 20 °C, Type 1, Notch A)		No break	
(23 °C, Type 1, Notch A)		No break	
<b>Hardness</b>			
Shore hardness (Shore D)	ISO 868	30	
<i>Note: 15 seconds</i>			
<b>Thermal</b>			
Melting temperature		140	°C
<i>Note: ISO 11357-3</i>			
Heat deflection temperature B (0.45 MPa)	ISO 75B-1, -2	40	°C
Unannealed			
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	60	°C
<b>Optical</b>			
Haze (50 µm)	ASTM D 1003	50	%
Gloss (45°, 50 µm)	ASTM D 2457	9	

