

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. $Ad\hat{l}ex \ Q \ 100 \ F$ 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	
Status	Commercial: Active
Test Method used	ISO
Availability	Europe, North America, Asia-Pacific, Australia/NZ, Africa- Middle East, Latin America
Processing Methods	Blown Film, Double Bubble, Extrusion Blow Molding
Features	Good Flexibility, Low Temperature Impact Resistance, Good Processability, Good Puncture Resistance , Soft, Good Tear Strength, Low Transparency
Typical Customer Applications	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 **Physical** Density ISO 1183 0.88 g/cm3 Melt flow rate (MFR) (230°C/2.16Kg) ISO 1133 0.6 g/10 min Mechanical Tensile Stress at Break ISO 527-1, -2 MPa Tensile Strain at Break ISO 527-1, -2 > 400 Flexural modulus ISO 178 100 **Impact** Notched izod impact strength ISO 180 (- 20 °C, Type 1, Notch A) No break (23 °C, Type 1, Notch A) No break Hardness Shore hardness (Shore D) ISO 868 30 Note: 15 seconds **Thermal** Melting temperature 140 °C Note: ISO 11357-3 ۰c Heat deflection temperature B (0.45 MPa) ISO 75B-1, -2 40 Unannealed ٥C Vicat softening temperature (A50 (50°C/h 10N)) ISO 306 60 Optical Haze (50 µm) ASTM D 1003 50 % Gloss (45°, 50 µm) **ASTM D 2457**

Additional Properties

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

Tensile Young modulus, MD/TD, ISO 527-3, 25 mm/min, 50 μ m: 90/90 MPa Stress at Yield, MD/TD,ISO 527-3, 500 mm/min, 50 μ m: 7.5/7.5 MPa Elongation at Yield, MD/TD,ISO 527-3, 500 mm/min, 50 μ m: 40/40 % Stress at Break, MD/TD,ISO 527-3, 500 mm/min, 50 μ m: 40/37 MPa Elongation at Break, MD/TD, ISO 527-3, 500 mm/min, 50 μm: 1000/1000 %