

Technical Data Sheet

Adflex Q 100 F



Catalloy

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.

Regulatory Status

For regulatory compliance information, see Adflex Q 100 F [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Australia and New Zealand; Europe; North America; South & Central America
Application	Agriculture Film; Bags & Pouches; Barrier Film; Breathable Film; Collapsible Tubes; Film Wrap; Food Packaging Film; Heavy Duty Packaging; Hygiene Film; Interior Automotive Applications; Lamination Film; Shrink Film; Stretch Hood; Surface Protection Film; TPO Foils and Skins
Market	Flexible Packaging; Rigid Packaging
Processing Method	Blown Film; Calendaring; Double Bubble; Extrusion Blow Molding; Extrusion Flat-die; Sheet; Thermoforming
Attribute	Good Flexibility; Good Processability; Good Puncture Resistance; Good Tear Strength; Low Temperature Impact Resistance; Low Transparency; Soft

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	0.6	g/10 min	ISO 1133-1
Density, (23 °C, Method A)	0.88	g/cm ³	ISO 1183-1
Mechanical			
Flexural Modulus	100	MPa	ISO 178
Tensile Stress at Break	10	MPa	ISO 527-1, -2
Tensile Stress at Yield	No Yield Pt	MPa	ISO 527-1, -2
Tensile Strain at Break	500	%	ISO 527-1, -2
Tensile Strain at Yield	No Yield Pt	%	ISO 527-1, -2
Impact			

Charpy Impact Strength - Notched		
(23 °C)	No Break	ISO 179
(-20 °C)	110 kJ/m²	ISO 179
Note: Failure Mode - Partial Break		
(-40 °C)	5 kJ/m²	ISO 179
Note: Failure Mode - Complete Break		
Hardness		
Shore Hardness, (Shore D, 15 sec)	30	ISO 868
Thermal		
Vicat Softening Temperature, (A50)	60 °C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	40 °C	ISO 75B-1, -2
DSC Melting Point	142 °C	ISO 11357-3
Optical		
Gloss, (60°, 45 mil)	85	ASTM D2457
Additional Information		
Mold Shrinkage		ISO 294-4
Please contact LyondellBasell for shrinkage information.		

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

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