

Adflex Q 200 F

Catalloy

Product Description

Adflex Q 200 F is a reactor TPO (thermoplastic polyolefin) manufactured using LyondellBasell's proprietary Catalloy process technology. Adflex Q 200 F features a fractional melt flow and a low modulus. It is selected by customers for use in extrusion applications. This resin is ideal for making soft hygienic or heavy duty films. It can also be used to modify LDPE or LLDPE resins in order to improve puncture resistance and other mechanical characteristics to allow further downgauging. It contains no slip or antiblock. This grade is available in natural pellet form.

Regulatory Status

For regulatory compliance information, see Adflex Q 200 F [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Australia and New Zealand; North America; South & Central America
Application	Cured in Place Pipe; Interior Automotive Applications; Soft Profile & Sheets; Specialty Film; TPO Foils and Skins
Market	Automotive; Flexible Packaging
Processing Method	Blown Film; Calendaring; Extrusion Blow Molding; Sheet and Profile Extrusion
Attribute	Good Flexibility; Good Impact Resistance; Good Processability; Good Toughness; High Strength; Low Flow

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	0.8	g/10 min	ISO 1133-1
Density, (23 °C, Method A)	0.88	g/cm ³	ISO 1183-1
Mechanical			
Flexural Modulus	150	MPa	ISO 178
Tensile Stress at Break	13	MPa	ISO 527-1, -2
Tensile Stress at Yield	8	MPa	ISO 527-1, -2
Tensile Strain at Break	500	%	ISO 527-1, -2
Tensile Strain at Yield	18	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C)	60	kJ/m ²	ISO 179
Note: Failure Mode - Partial Break			
(-20 °C)	87	kJ/m ²	ISO 179
Note: Failure Mode - Partial Break			
(-40 °C)	2.1	kJ/m ²	ISO 179
Note: Failure Mode - Complete Break			
Hardness			
Shore Hardness, (Shore D, 15 sec)	35		ISO 868
Thermal			

Vicat Softening Temperature, (A50)	76 °C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	44 °C	ISO 75B-1, -2
DSC Melting Point	163 °C	ISO 11357-3
Optical		
Haze, (45 mil)	44 %	ASTM D1003
Gloss, (60°, 45 mil)	86	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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