



# Adflex Q 402 F

LyondellBasell Industries - Polyolefin

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## General Information

### Product Description

Adflex Q 402 F is a reactor TPO (thermoplastic polyolefin) manufactured using LyondellBasell's proprietary Catalloy process technology. It is suitable for air quenched blown film applications.

### General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Latin America	
	• Asia Pacific	• North America	
Features	• Autoclavable	• High Heat Resistance	
	• Good Tear Strength	• Puncture Resistant	
Uses	• Bags	• Packaging	
	• Blown Film	• Piping	• Sheet
	• Film	• Profiles	
Processing Method	• Blown Film	• Extrusion	• Profile Extrusion
	• Calendering	• Extrusion Blow Molding	• Sheet Extrusion

## ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density (73°F)	0.880	g/cm <sup>3</sup>	ISO 1183/A
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.65	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	2180	psi	ISO 527-2
Tensile Stress (Break)	3050	psi	ISO 527-2
Tensile Strain (Yield)	27	%	ISO 527-2
Tensile Strain (Break)	800	%	ISO 527-2
Flexural Modulus	69600	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-40°F, Complete Break	1.0	ft·lb/in <sup>2</sup>	
-4°F, Complete Break	1.5	ft·lb/in <sup>2</sup>	
73°F, Partial Break	41	ft·lb/in <sup>2</sup>	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	49		ISO 868
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (66 psi, Unannealed)	135	°F	ISO 75-2/B
Vicat Softening Temperature	226	°F	ISO 306/A50
Melting Temperature	325	°F	ISO 11357-3
Optical	Nominal Value	Unit	Test Method
Gloss (60°, 45.0 mil)	87		ASTM D2457
Haze (45.0 mil)	67.0	%	ASTM D1003

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

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