



Adflex Q 401 F

LyondellBasell Industries - Polyolefin

Tuesday, November 5, 2019

General Information

Product Description

Adflex Q 401 F is a reactor TPO (thermoplastic polyolefin) manufactured using LyondellBasell's proprietary Catalloy process technology. It is suitable for air quenched blown film applications. It contains slip and anti-block additives.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Latin America • North America	
Additive	• Antiblock	• Slip	
Features	• Antiblocking • Good Tear Strength	• High Heat Resistance • Puncture Resistant	• Slip
Uses	• Bags • Blown Film	• Film • Packaging	• Piping
Processing Method	• Blown Film	• Extrusion	

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	0.880	g/cm ³	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 ²	
-4°F, Complete Break	1.5	ft-lb/in ²	
73°F, Partial Break	41	ft-lb/in ²	
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

¹ Typical properties: these are not to be construed as specifications.