Adflex Q 402 F

LyondellBasell Industries - Polyolefin

Tuesday, November 5, 2019

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 • Asia Pacific	• Latin America • North America	
Features	• Autoclavable • Good Tear Strength	• High Heat Resistance • Puncture Resistant	
Uses	• Bags • Blown Film • Film	• Packaging • Piping • Profiles	• Sheet
Processing Method	• Blown Film • Calendering	• Extrusion • Extrusion Blow Molding	• Profile Extrusion • Sheet Extrusion

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density (73°F)	0.880	g/cm³	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/in²	
-4°F, Complete Break	1.5	ft·lb/in²	
73°F, Partial Break	41	ft·lb/in²	
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.