Adflex Q 200 F

LyondellBasell Industries - Polyolefin

Tuesday, November 5, 2019

General Information

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 futher downgauging. It contains no slip or antiblock. This grade is available in natural pellet form.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Latin America • North America	
Features	• Good Flexibility • Good Impact Resistance	• Good Processability • Good Toughness	• High Strength • Low Flow
Uses	• Automotive Applications • Automotive Interior Parts • Blown Film	• Film • Packaging • Piping	• Plastics Modification • Profiles • Sheet
Appearance	• Natural Color		
Forms	• Pellets		
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)	0.80	g/10 min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Yield)	1160	psi	ISO 527-2
Tensile Stress (Break)	1890	psi	ISO 527-2
Tensile Strain (Yield)	18	%	ISO 527-2
Tensile Strain (Break)	500	%	ISO 527-2
Flexural Modulus	21800	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, Partial Break	41	ft·lb/in²	
73°F, Partial Break	29	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)	111	°F	ISO 75-2/B
Vicat Softening Temperature	169	°F	ISO 306/A50
Melting Temperature	325	°F	ISO 11357-3
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (60°, 45.0 mil)	86		ASTM D2457
Haze (45.0 mil)	44.0	%	ASTM D1003

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Notes

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