



Adflex X 500 F

LyondellBasell Industries - Polyolefin

Tuesday, November 5, 2019

General Information

Product Description

Adflex X 500 F is a thermoplastic polyolefin which is typically used in co-extruded cast film and injection moulding applications. Adflex X 500 F features a high softness, a low modulus, high gloss and excellent clarity. It has been selected by customers for use in a central layer of tough transparent co-extruded cast-film structures. It can be blended with other transparent polyolefinic resins to improve the low temperature impact resistance maintaining the transparency of the film. Adflex X 500 F can be processed on conventional PP cast film lines. It is also suited for injection moulding applications where high transparency and good gloss combined with good flexibility is required like e.g. housewares and toys. It does not contain any slip nor anti-blocking agents.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Flexibility • Good Processability • High Clarity	• High Gloss • High Heat Resistance • Low Temperature Impact Resistance	• Medium Stiffness • Soft
Uses	• Bags • Blending • Cast Film • Containers	• Film • Food Packaging • Household Goods • Laminates	• Packaging • Plastics Modification • Rigid Packaging • Toys
Processing Method	• Cast Film • Coextruded Film	• Extrusion Coating • Injection Molding	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	0.890	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	7.5	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	2030	psi	ISO 527-2
Tensile Stress (Break)	3190	psi	ISO 527-2
Tensile Strain (Yield)	20	%	ISO 527-2
Tensile Strain (Break)	700	%	ISO 527-2
Flexural Modulus	79800	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-40°F, Complete Break	2.4	ft-lb/in ²	
-4°F, Partial Break	21	ft-lb/in ²	
73°F, Partial Break	31	ft-lb/in ²	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	46		ISO 868
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (66 psi, Unannealed)	136	°F	ISO 75-2/B
Vicat Softening Temperature	201	°F	ISO 306/A50
Melting Temperature	325	°F	ISO 11357-3

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Optical	Nominal Value	Unit	Test Method
Gloss			ASTM D2457
45°, 1.97 mil	60		
60°, 45.0 mil	110		
Haze			ASTM D1003
1.97 mil	13.0	%	
45.0 mil	23.0	%	

Notes

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