

Adflex X 500 F

Polyolefin
LyondellBasell Industries

Message:

Adflex X 500 F is a thermoplastic polyolefin which has been developed for 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 especially developed as 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. For regulatory information please refer to Adflex X 500 F Product Stewardship Bulletin (PSB).

General Information			
Features	Food Contact Acceptable		
	Good Processability		
	Good Stiffness		
	High Clarity		
	High Gloss		
	High Heat Resistance		
	Low Temperature Impact Resistance		
	Soft		
Uses	Bags		
	Containers		
	Film		
	Food Packaging		
	Laminates		
	Stationary Supplies		
Forms	Pellets		
Processing Method	Cast Film		
	Coextruded Film		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	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)	14.0	MPa	ISO 527-2

Tensile Strain (Break)	500	%	ISO 527-2
Flexural Modulus	470	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/1A
-40°C	14	kJ/m ²	
-20°C	65	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	60.0	°C	ISO 75-2/B
Vicat Softening Temperature	94.0	°C	ISO 306/A50
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.0 µm)	> 60		ASTM D2457
Haze (50.0 µm)	13	%	ASTM D1003

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