



Adflex V 109 F

LyondellBasell Industries - Polyolefin

Tuesday, November 5, 2019

General Information

Product Description

Adflex V 109 F is a reactor TPO (thermoplastic polyolefin) manufactured using LyondellBasell's proprietary Catalloy process technology. It is primarily used for molding, impact modification, extrusion coating and film applications. This resin can be used on conventional injection molding or extrusion equipment. Adflex V 109 F features a very high softness and low modulus, with a relatively high melt flow. The grade is available in natural pellet form.

General

Material Status	• Commercial: Active		
Availability	• Latin America	• North America	
Features	• Contact Clarity • High Flow	• Low Temperature Impact Resistance • Soft	
Uses	• Automotive Applications • Cast Film • Coating Applications • Compounding • Film	• Flooring • Household Goods • Industrial Applications • Packaging • Plastics Modification	• Rigid Packaging • Sporting Goods • Toys
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Cast Film • Compounding	• Extrusion • Extrusion Coating	• Injection Molding

ASTM & ISO Properties ¹

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)	12	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	725	psi	ISO 527-2
Tensile Stress (Break)	1160	psi	ISO 527-2
Tensile Strain (Yield)	40	%	ISO 527-2
Tensile Strain (Break)	800	%	ISO 527-2
Flexural Modulus	11600	psi	ISO 178
Elastomers	Nominal Value	Unit	Test Method
Tear Strength	371	lbf/in	ASTM D624
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-40°F, Complete Break	0.67	ft·lb/in ²	
-4°F, Partial Break	2.4	ft·lb/in ²	
73°F, Partial Break	17	ft·lb/in ²	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	30		ISO 868
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (66 psi, Unannealed)	95.0	°F	ISO 75-2/B
Vicat Softening Temperature	131	°F	ISO 306/A50
Melting Temperature	288	°F	ISO 11357-3

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Optical	Nominal Value	Unit	Test Method
Gloss (60°, 45.0 mil)	62		ASTM D2457
Haze (45.0 mil)	49.0	%	ASTM D1003

Notes

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