

Adflex V 109 F

Polyolefin
LyondellBasell Industries

Message:

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. For regulatory compliance information, see the Adflex V 109 F Product Stewardship Bulletin (PSB).

General Information			
Features	Contact Clarity		
	High Flow		
	Low Temperature Impact Resistance		
	Soft		
Uses	Cast Film		
	Household Goods		
	Industrial Applications		
	Sporting Goods		
	Toys		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Cast Film		
	Extrusion		
	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)	12	g/10 min	ISO 1133
Molding Shrinkage ¹ (48 hr, 3.20 mm)	0.90	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			
Shore D, 15 sec	30		ASTM D2240, ISO 868
Shore A, 15 sec	85		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield	5.00	MPa	
Break	8.00	MPa	
Tensile Strain			ISO 527-2

Yield	> 40	%	
Break	> 800	%	
Flexural Modulus	80.0	MPa	ISO 178
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ²	65.0	kN/m	ASTM D624
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/1A
-40°C	2.0	kJ/m ²	
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	35.0	°C	ISO 75-2/B
Ductile / Brittle Transition Temperature	-55.0	°C	ISO 6603-2
Vicat Softening Temperature	55.0	°C	ISO 306/A50
Melting Temperature	142	°C	ISO 11357-3
NOTE			
1.	100x150x3.2 mm		
2.	Die C, 50 mm/min		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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