



# Adflex KS 084 P

LyondellBasell Industries - Polyolefin

Tuesday, November 5, 2019

## General Information

### Product Description

Adflex KS 084 P is a reactor TPO (thermoplastic polyolefin) manufactured using LyondellBasell's proprietary Catalloy process technology. Adflex KS 084 P features a high melt flow and a low modulus. It is selected by customers for many commercial and industrial extrusion applications.

Without exception, all potential activities for applications in the pharmaceutical, medical device, laboratory and diagnostics area have to be discussed with the relevant LyondellBasell Technical and Business contacts first.

### General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Latin America	• North America
Features	• Chemical Resistant • Good Flexibility • Good Heat Seal	• Good Toughness • High ESCR (Stress Crack Resist.) • High Flow	• High Strength • Low Temperature Impact Resistance • Puncture Resistant
Uses	• Building Materials • Carpet Backing • Cast Film • Compounding	• Construction Applications • Film • Industrial Applications • Medical/Healthcare Applications	• Packaging • Plastics Modification
Processing Method	• Cast Film • Compounding	• Extrusion • Extrusion Coating	• Injection Molding

## ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density (73°F)	0.880	g/cm <sup>3</sup>	ISO 1183/A
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	30	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	870	psi	ISO 527-2
Tensile Stress (Break)	1890	psi	ISO 527-2
Tensile Strain (Yield)	55	%	ISO 527-2
Tensile Strain (Break)	800	%	ISO 527-2
Flexural Modulus	14500	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-40°F, Complete Break	0.57	ft·lb/in <sup>2</sup>	
-4°F, Complete Break	1.3	ft·lb/in <sup>2</sup>	
73°F, Partial Break	22	ft·lb/in <sup>2</sup>	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	35		ISO 868
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (66 psi, Unannealed)	104	°F	ISO 75-2/B
Vicat Softening Temperature	127	°F	ISO 306/A50
Melting Temperature	325	°F	ISO 11357-3
Optical	Nominal Value	Unit	Test Method
Gloss (60°, 45.0 mil)	72		ASTM D2457
Haze (45.0 mil)	37.0	%	ASTM D1003

UL and the UL logo are trademarks of UL LLC © 2019. All Rights Reserved.

The information presented here was acquired by UL from the producer of the product or material or original information provider. However, UL assumes no responsibility or liability for the accuracy of the information contained on this website and strongly encourages that upon final product or material selection information is validated with the manufacturer. This website provides links to other websites owned by third parties. The content of such third party sites is not within our control, and we cannot and will not take responsibility for the information or content.

# Adflex KS 084 P

## LyondellBasell Industries - Polyolefin

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.