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 • Asia Pacific	• 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 [1]

Physical	Nominal Value	Unit	Test Method
Density (73°F)	0.880	g/cm³	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/in²	
-4°F, Complete Break	1.3	ft·lb/in²	
73°F, Partial Break	22	ft·lb/in²	
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

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Notes

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