



Adflex Z 108 S

LyondellBasell Industries - Polyolefin

Tuesday, November 5, 2019

General Information

Product Description

Adflex Z 108 S is a reactor TPO (thermoplastic polyolefin) manufactured using the proprietary Catalloy process technology from LyondellBasell. Adflex Z 108 S features a very high softness, a very low flexural modulus and a high melt flow rate. It is used by customers for injection molding, impact modification, extrusion coating, soft compounding, film and fiber applications. It is also selected by customers for the modification of polypropylene homopolymer and random copolymer without altering the transparency. The grade is available in natural pellet form.

General

Material Status	• Commercial: Active		
Availability	• Europe	• Latin America	• North America
Features	• High Elongation • High Flow	• Low Hardness • Low Temperature Impact Resistance	• Narrow Molecular Weight Distribution • Soft
Uses	• Building Materials • Cast Film • Coating Applications • Compounding • Construction Applications	• Fibers • Filaments • Film • Nonwovens • Packaging	• Pipe Coatings • Plastics Modification • Spun Bonding • Textile Applications • Yarn
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Cast Film • Compounding	• Extrusion Coating • Fiber (Spinning) Extrusion	• Filament Extrusion • 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)	27	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	725	psi	ISO 527-2
Tensile Stress (Break)	870	psi	ISO 527-2
Tensile Strain (Yield)	20	%	ISO 527-2
Tensile Strain (Break)	800	%	ISO 527-2
Flexural Modulus	11600	psi	ISO 178
Elastomers	Nominal Value	Unit	Test Method
Tear Strength	354	lbf/in	ASTM D624
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-40°F, Complete Break	0.62	ft-lb/in ²	
-4°F, Partial Break	1.3	ft-lb/in ²	
73°F, Partial Break	16	ft-lb/in ²	
Instrumented Dart Impact ²			ASTM D3763
-40°F, 0.126 in, Ductile Failure	159	in-lb	
73°F, 0.126 in, Ductile Failure	88.5	in-lb	
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)	98.6	°F	ISO 75-2/B

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Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	127	°F	ISO 306/A50
Melting Temperature	288	°F	ISO 11357-3

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.

² 7.22 ft/sec