

# Adflex Z 101 H

Thermoplastic Polyolefin Elastomer  
LyondellBasell Industries

Message:

Adflex Z 101 H is a reactor TPO (thermoplastic polyolefin) manufactured using the LyondellBasell's proprietary Catalloy process technology. It exhibits high softness and low modulus, with high melt flow index.

Adflex Z 101 H is tailored to replace atactic polypropylene copolymers (APP) used for the modification of bitumen in roofing membranes. The percentage to be added can vary according to the quantity of the atactic polypropylene used in combination with Adflex Z 101 H and the requested cold bending temperature of the end product. Its structure is tailored to obtain easy dispersion and phase inversion in the bitumen blend.

The grade is available in natural pellet form.

General Information	
Features	Good Chemical Resistance
	Good Flexibility
	High ESCR (Stress Crack Resist.)
	High Flow
	Low Temperature Impact Resistance
Uses	Soft
	Asphalt Modification
Appearance	Compounding
	Natural Color
Forms	Pellets
Processing Method	Compounding
	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	0.880	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	27	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	28		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	5.00	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	> 400	%	ISO 527-2
Flexural Modulus (23°C)	76.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			
-40°C	> 40	kJ/m <sup>2</sup>	ISO 180/1A
-20°C	No Break		ISO 180

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	55.0	°C	ISO 306/A50

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