



## Adflex Z 101 H

### Advanced Polyolefin

#### Product Description

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.

For regulatory compliance information see Adflex Z 101 H Regulatory Affairs Product Stewardship Information/Certification Data Sheet (RAPIDS), which can be found on [www.polymers.lyondellbasell.com](http://www.polymers.lyondellbasell.com).

#### Product Characteristics

<b>Status</b>	Commercial: Active
<b>Test Method used</b>	ISO
<b>Availability</b>	Europe, Asia-Pacific, Australia/NZ, Africa-Middle East, Latin America
<b>Processing Methods</b>	Extrusion Compounding, Injection Molding
<b>Features</b>	Good Chemical Resistance, High ESCR (Environmental Stress Cracking Resistance), Good Flexibility, High Flow , Low Temperature Impact Resistance, Soft
<b>Typical Customer Applications</b>	Bitumen Modification

Typical Properties	Method	Value	Unit
<b>Physical</b>			
Density (Method A)	ISO 1183	0.88	g/cm <sup>3</sup>
Melt flow rate (MFR) (230°C/2.16kg)	ISO 1133	27	g/10 min
<b>Mechanical</b>			
Tensile Stress at Yield	ISO 527-1, -2	5	MPa
Tensile Strain at Break	ISO 527-1, -2	> 400	%
Flexural modulus	ISO 178	76	MPa
<b>Impact</b>			
Notched izod impact strength	ISO 180		
(- 20 °C, Type 1, Notch A)		No Break	
(- 40°C, Type 1, Notch A)		> 40	kJ/m <sup>2</sup>
<b>Hardness</b>			
Shore hardness (Shore D)	ISO 868	28	
<b>Thermal</b>			
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	55	°C

#### Notes

Typical properties; not to be construed as specifications.