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.

Product Characteristics

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

Typical Properties	Method	Value	Unit
Physical			
Density (Method A)	ISO 1183	0.88	g/cm³
Melt flow rate (MFR) (230°C/2.16kg)	ISO 1133	27	g/10 min
Mechanical			
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
Impact			
Notched izod impact strength	ISO 180		
(- 20 °C, Type 1, Notch A)		No Break	
(- 40°C, Type 1, Notch A)		> 40	kJ/m²
Hardness			
Shore hardness (Shore D)	ISO 868	28	
Thermal			
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	55	°C

Notes

Typical properties; not to be construed as specifications.