Technical Data Sheet

Adflex Z101H

Catalloy

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.

Regulatory Status

For regulatory compliance information, see *Adflex* Z101H Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Australia and New Zealand; Europe; North America; South & Central America
Application	Bitumen Modification; Carpet Backing
Processing Method	Compounding; Injection Molding
Attribute	Good Chemical Resistance; Good ESCR (Environmental Stress Cracking Resistance); High Flow; Low Temperature Flexibility; Low Temperature Impact Resistance; Soft

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	27	g/10 min	ISO 1133-1
Density, (23 °C, Method A)	0.88	g/cm³	ISO 1183-1
Mechanical			
Flexural Modulus	80	MPa	ISO 178
Tensile Stress at Break	10	MPa	ISO 527-1, -2
Tensile Elongation at Break	400	%	ISO 8986-2
Impact			
Charpy Impact Strength - Notched			
(23 °C)	NB	kJ/m²	ISO 179
(-20 °C)	92	kJ/m²	ISO 179
(-40 °C)	2	kJ/m²	ISO 179
Hardness			
Shore Hardness, (Shore D)	30		ISO 868
Thermal			
Vicat Softening Temperature, (A/10 N)	55	°C	ISO 306

Deflection Temperature Under Load, (0.45 MPa, Unannealed)	40	°C	ISO 75B-1, -2
Melting Temperature	142	°C	ISO 11357-3

Notes

These are typical property values not to be construed as specification limits.