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 <u>Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS)</u>.

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

N	lominal	

Typical Properties	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	Tensile Stress at Break 10		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	

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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.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit http://www.lyb.com/.

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- (iii) packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration;
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