Adflex X 101 H

Polyolefin

LyondellBasell Industries

Message:

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

Adflex X 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 X 101 H and the requested cold bending temperature of the end product. Due to the high molecular weight of Adflex X 101 H, high blend viscosity and good penetration values are obtained. Its structure is tailored to obtain easy dispersion and phase inversion in the bitumen blend.

Adflex X101H is also used in other industrial applications where high flexibility and the capability of accepting high filler loading levels are required. The grade is available in natural pellet form.

For regulatory compliance information see Adflex X 101 H Product Stewardship Bulletin (PSB).

General Information				
Features	Good Chemical Resistance			
	Good Flexibility			
	High ESCR (Stress Crack Resist.)			
	High Flow			
	Low Temperature Impact Resistance			
	Soft			
Uses	Asphalt Modification			
	Compounding			
Appearance	Natural Color			
Forms	Pellets			
Processing Method	Compounding			
	Extrusion			
	Injection Molding			
Physical	Nominal Value	Unit	Test Method	
Density	0.880	g/cm³	ISO 1183/A	
Melt Mass-Flow Rate (MFR) (230°C/2.16				
kg)	8.0	g/10 min	ISO 1133	
Molding Shrinkage ¹ (48 hr, 3.20 mm)	1.0	%	ISO 294-4	
Hardness	Nominal Value	Unit	Test Method	
Shore Hardness (Shore D, 15 sec)	30		ISO 868	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Stress			ISO 527-2	
Yield	6.00	MPa		
Break	10.0	MPa		
Tensile Strain			ISO 527-2	

Yield	> 40	%	
Break	> 800	%	
Flexural Modulus	80.0	MPa	ISO 178
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ²	67.0	kN/m	ASTM D624
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/1A
-40°C	2.0	kJ/m²	
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa			
Unannealed)	36.0	°C	ISO 75-2/B
Vicat Softening Temperature	55.0	°C	ISO 306/A50
NOTE			
1.	100x150x3.2 mm		
2.	Die C, 50 mm/min		

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