

JUNIFOL DE Membranes with DIBt-Zulassung

Characteristic	Test method	Unit	JUNIFOL DE		
			G/G	G/Sa	Sa/Sa
Material	DSC analysis		PE-HD		
Surface			smooth/smooth	smooth/textured	textured/textured
PHYSICAL PROPERTIES					
Thickness (mean -5/+10 %; individual ± 10 %)	EN 1849-2	mm	2,0 ; 2,5 ; 3,0	2,0 ; 2,5 ; 3,0	2,0 ; 2,5
Density	EN ISO 1183-1	g/cm ³	0,949 ± 0,004		
Width ¹⁾	EN 1848-2	m	5,1 or 8,0	5,1 (8,0)	5,1 or 8,0
Length (max.) ¹⁾	EN 1848-2	m	120 ; 100 ; 85	80 ; 80 ; 60	70 ; 70
Melt mass-flow rate (MFR)	EN ISO 1133-1 (190 °C, 5 kg)	g/10 min.	0,98 ± 0,40		
Dimensional stability	EN 1107-2 (120 °C, 60 min)	%	≤ 3		
HYDRAULIC PROPERTIES					
Permeability to liquids	EN 14150	m ³ /(m ² .d)	< 1.10 ⁻⁶		
MECHANICAL PROPERTIES					
Tensile strength MD/CMD	EN ISO 527-1,3 Specimen Type 5 Velocity 100 mm/min	N/mm ²	30 (- 2)		
Elongation (extensometer) MD/CMD		%	800 (- 40)		
Strength at yield MD/CMD		N/mm ²	19 ± 15 %		
Elongation at yield MD/CMD		%	12 ± 15 %		
THERMAL PROPERTIES					
Foldability at low temperature	EN 495-5	°C	without cracks at -20 °C		
Linear thermal expansion coefficient	ASTM D 696	K ⁻¹ [mm/(mm.K)]	1,76 E-04		
DURABILITY AND CHEMICAL RESISTANCE					
Chemical resistance	EN ISO 175		complies (Zulassung Z-59.21-366, Anlage 1 - Liste der Flüssigkeiten)		
Oxidative-Induction Time (OIT)	EN 728 (210 °C)	min.	≥ 35		
Resistance to weathering	EN 12224		reduction of strength at yield and elongation at yield: ≤ 20 % of original values		
Resistance to oxidation	EN 14575		reduction of strength at yield and elongation at yield: ≤ 20 % of original values		
OTHER PROPERTIES					
Carbon black content	EN ISO 11358	%	2,2 ± 0,2		
Carbon black dispersion	ASTM D 5596	category	1 (2)		
Fire behaviour	DIN 4102	class	B2		

1) Tolerance ± 1 %

Above mentioned data are of informative character only. The manufacturer reserves the right to alter the specifications without prior notice. It is the responsibility of all customers to reassure themselves that the above specifications are current.

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