

VESTAMID® Care ME47

Polyether Block Amide

Evonik Industries AG

Message:

VESTAMID® Care ME grades represent a range of flexible polyether block amide (PEBA) resins of varying hardness for processing via extrusion or injection molding. VESTAMID® Care ME materials are available as standard and bonding-modified grades.

VESTAMID® Care ME standard grades have a proven history in catheter applications. Due to their broad range of flexibility, VESTAMID® CareME grades are used in different parts of catheter constructions - may it be the distal end, requiring a low modulus for non-traumatic insertion, or the proximal end, needing a high modulus for force and torque transmission. The advantages at a glance:

- High flexibility & elasticity
- Good rebound properties
- High impact resistance
- High dimensional stability
- High chemical resistance
- High toughness
- Easy processability & colorability
- Free of volatile plasticizers

General Information			
Features	Biocompatible		
	Good Chemical Resistance		
	Good Colorability		
	Good Dimensional Stability		
	Good Flexibility		
	Good Processability		
	Good Toughness		
	High Elasticity		
	High Impact Resistance		
Uses	Medical Devices		
	Medical/Healthcare Applications		
	Tubing		
Agency Ratings	ISO 10993		
	USP 88		
	USP Class VI		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.03	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow : 3.00 mm	0.90 to 1.5	%	

Flow : 3.00 mm	0.60 to 1.1	%	
Water Absorption (Saturation, 23°C)	1.1	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	47		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	220	MPa	ISO 527-2
Tensile Stress			ISO 527-2/50
Yield, 23°C	38.0	MPa	
50% Strain, 23°C	17.0	MPa	
Tensile Strain (Break, 23°C)	> 200	%	ISO 527-2/50
Tensile Creep Modulus (1000 hr)	100	MPa	ISO 899-1
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C, Complete Break	22	kJ/m ²	
23°C	No Break		
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	90.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	45.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	160	°C	ISO 306/A
--	100	°C	ISO 306/B
CLTE			ISO 11359-2
Flow : 23 to 55°C	2.0E-4	cm/cm/°C	
Transverse : 23 to 55°C	2.0E-4	cm/cm/°C	
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	HB		UL 94

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