VESTAMID® Care ME40-B

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)	1.00	g/cm³	ISO 1183
Water Absorption			ISO 62
Saturation, 23°C	1.5	%	

Equilibrium, 23°C, 50% RH	0.70	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	46		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	180	MPa	ISO 527-2
Tensile Stress			ISO 527-2/50
Yield, 23°C	27.0	MPa	
50% Strain,23°C	12.0	MPa	
Tensile Strain (Break, 23°C)	> 200	%	ISO 527-2/50
Tensile Creep Modulus (1000 hr)	60.0	MPa	ISO 899-1
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C, Complete Break	34	kJ/m^2	
23°C, Partial Break	100	kJ/m^2	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	122	°C	ISO 306/A

Recommended distributors for this material

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