VESTAMID® Care ME55

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)	55		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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