TROGAMID® Care MT50

Polyamide

Evonik Industries AG

Message:

Microcrystalline TROGAMID® Care MX is the material of choice for all applications dealing with pharmaceutical formulations, lipids or aggressive disinfectants, since it exhibits an exceptional resistance towards chemicals and stress-cracking. Examples include fluid and drug delivery equipment such as stop-cocks, dialyzer parts, housings, covers or hearing aids. Target areas of application for TROGAMID® Care MX compounds include fluid and drug delivery systems, surgical instruments, housings, monitoring and imaging devices and durable medical equipment. All advantages at a glance
High transparency
High chemical resistance
Very good stress crack resistance
UV resistance
High dynamic load-bearing capacity
Easy processability & colorability
Free of BPA

General Information	
Features	Biocompatible
	BPA Free
	Good Chemical Resistance
	Good Colorability
	Good Processability
	Good UV Resistance
	High Clarity
	High ESCR (Stress Crack Resist.)
Uses	Housings
	Medical Devices
	Medical/Healthcare Applications
	Pharmaceuticals
	Surgical Instruments
Agency Ratings	ISO 10993
	USP 88
	USP Class VI
Appearance	Clear/Transparent
Processing Method	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.12	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4

Across Flow : 2.00 mm	0.50	%	
Flow : 2.00 mm	0.50	%	
Water Absorption (Saturation, 23°C)	7.5	%	ISO 62
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore D)	87		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2800	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	90.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	8.0	%	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)	> 50	%	ISO 527-2/50
Flexural Modulus	3000	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C, Complete Break	7.0	kJ/m^2	
23°C, Complete Break	12	kJ/m^2	
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	145	°C	ISO 75-2/B
1.8 MPa, Unannealed	130	°C	ISO 75-2/A
Glass Transition Temperature [1]	150	°C	ISO 11357-2
Vicat Softening Temperature			
--	130	°C	ISO 306/A
--	145	°C	ISO 306/B
CLTE			ISO 11359-2
Flow : 23 to 55°C	5.5E-5	cm/cm/°C	
Transverse : 23 to 55°C	5.5E-5	cm/cm/°C	
NOTE			
1.	10 K / min		

Recommended distributors for this material

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