

TROGAMID® Care MX73

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)	1.02	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4

Across Flow : 2.00 mm	0.80	%	
Flow : 2.00 mm	0.65	%	
Water Absorption (Saturation, 23°C)	3.5	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	81		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1400	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	60.0	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	1700	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C, Complete Break	11	kJ/m ²	
23°C, Complete Break	14	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	122	°C	ISO 75-2/B
1.8 MPa, Unannealed	108	°C	ISO 75-2/A
Glass Transition Temperature ¹	140	°C	ISO 11357-2
Vicat Softening Temperature			
--	137	°C	ISO 306/A
--	130	°C	ISO 306/B
Melting Temperature (DSC) ²	250	°C	ISO 11357
CLTE			ISO 11359-2
Flow : 23 to 55°C	9.0E-5	cm/cm/°C	
Transverse : 23 to 55°C	9.0E-5	cm/cm/°C	
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
0.800 mm	HB		
1.60 mm	HB		
NOTE			
1.	10 K / min		
2.	2nd Heating		

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