

Product Information

TROGAMID® CX9703

Transparent polyamide compound with UV absorber

TROGAMID CX9703 is a crystallizable and permanently transparent polyamide. The crystallites are so small that they do not scatter visible light, a property known as micro-crystallinity.

The resin contains a UV absorber that absorbs the UV radiation of wavelengths shorter than 400 nm.

Parts made of TROGAMID CX9703 achieve a very low mold shrinkage and warpage.

Due to the high UV resistance, the good mechanical load and the resistance against cleaning agents and lubricants the compound will be suitable for a wide range of applications.

TROGAMID CX9703 is supplied as cylindrical pellets in moisture-proof packaging, ready for processing.

For information about processing of TROGAMID CX9703, please follow the recommendations in our brochure "TROGAMID Handling and Processing."

For further information, please contact our experts in the department Market Development of the High Performance Polymers Business Line.

Property	Test method		Unit	TROGAMID CX9703	
	international	national			
Density	23°C	ISO 1183	DIN EN ISO 1183	g/cm ³	1.02
Tensile test		ISO 527-1	DIN EN ISO 527-1		
Stress at yield		ISO 527-2	DIN EN ISO 527-2	MPa	60
Strain at yield				%	8
Strain at break				%	> 50
Tensile modulus		ISO 527-1	DIN EN ISO 527-1	MPa	1400
		ISO 527-2	DIN EN ISO 527-2		
CHARPY impact strength		ISO 179/1eU	DIN EN ISO 179/1eU		
	23°C			kJ/m ²	N ¹⁾
	-30°C			kJ/m ²	N ¹⁾
CHARPY notched impact strength		ISO 179/1eA	DIN EN ISO 179/1eA		
	23°C			kJ/m ²	14 C ¹⁾
	-30°C			kJ/m ²	12 C ¹⁾
Shore-hardness D		ISO 868	DIN EN ISO 868		80
Ball indentation hardness H30		ISO 2039-1	DIN EN ISO 2039-1	N/mm ²	108
Temperature of deflection under load		ISO 75-1	DIN EN ISO 75-1		
		ISO 75-2	DIN EN ISO 75-2		
Method A	1.8 MPa			°C	108
Method B	0.45 MPa			°C	122
Vicat softening temperature		ISO 306	DIN EN ISO 306		
Method A	10 N			°C	135
Method B	50 N			°C	130
Linear thermal expansion	23-55°C	ISO 11359	DIN 53752		
longitudinal				10 ⁻⁴ K ⁻¹	0.9
transverse				10 ⁻⁴ K ⁻¹	0.9
Relative permittivity		IEC 60250	DIN VDE 0303-T4		
	100 Hz				3.6
	1 MHz				3.2
Dissipation factor		IEC 60250	DIN VDE 0303-T4		
	100 Hz			10 ⁻⁴	100
	1 MHz			10 ⁻⁴	300
Comparative tracking index		IEC 60112	IEC 60112		
Test solution A	CTI				600
	100 drops value				575
Spec. surface resistance		IEC 60093	IEC 60093	Ohm	10 ¹³
Surface resistance R _{0A}		IEC 60093	IEC 60093	Ohm	10 ¹³
Water absorption	saturation	ISO 62	DIN EN ISO 62	%	3.5

Pigmentation may affect values.

¹⁾ C = Complete break, incl. hinge break H
N = No break

® = registered trademark

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