



COMPOSITES ● CELERON

Indicated for mechanical applications, CELERON has great resistance to impact and wear, even in harsh conditions such as dusty environments. It is therefore suitable for the construction of elements subjected to heavy loads and wear. It is also a great noise reducer and has a low coefficient of friction. It can be lubricated with water, oil or grease. It is resistant to atmospheric conditions and salt water, being an alternative to materials containing asbestos.



MAIN CHARACTERISTICS

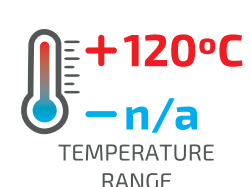
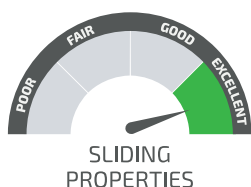
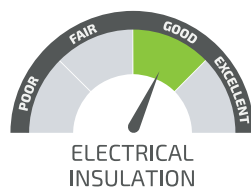
- Excellent mechanical properties
- High resistance to shock and vibration
- Low wear on parts subjected to continuous friction
- Low coefficient of friction
- Good dimensional stability

APPLICATIONS

- Cable reel and silent sprockets
- Large loads bushings
- Support and transport rollers
- Electrical Insulation parts
- Vibration Isolator
- Slide plates
- Fuse holder

POLY

LANEMA



COMPOSITES

TECHNICAL DATASHEET



PROPERTIES	TEST METHODS	UNITS	CELERON
DENSITY	ISO 1183	g/cm³	1.35
WATER ABSORPTION			
AFTER 24H IMMERSION IN WATER OF 23°C	ISO 62	mg	200
		%	1.0
THERMAL PROPERTIES			
TEMPERATURE INDEX (TI)	IEC 60216	°C	120
THERMAL CONDUCTIVITY	DIN 52612	W/m.K	0.2
COEFFICIENT OF LINEAR THERMAL EXPANSION	VDE 0304	1.0E-6/K	18
MAXIMUM ALLOWABLE SERVICE TEMPERATURE			
FOR SHORT PERIODS	-	°C	-
CONTINUOUSLY	-	°C	-
MECHANICAL PROPERTIES AT 23°C ⁸			
FLEXURAL STRENGTH	ISO 178	MPa	120
FLEXURAL RESISTANCE AT 150°C/1H	ISO 178	MPa	-
MODULUS OF ELASTICITY	ISO 178	MPa	6000
CHARPY IMPACT RESISTANCE - NOTCHED	ISO 179	KJ/m²	10
RESISTANCE TO FLAT COMPRESSION	ISO 604	MPa	-
FLAT COMPRESSIVE FORCE AT 23°C	ISO 604	MPa	-
FLAT COMPRESSIVE FORCE AT 200°C	ISO 604	MPa	-
TENSILE STRENGTH	ISO 527	MPa	-
CUTTING VOLTAGE	IEC 60893	MPa	-
ELECTRICAL PROPERTIES AT 23°C			
INSULATION RESISTANCE AFTER IMMERSION IN WATER	IEC 60167	Ω	2.00E+6
VOLTAGE FALL AT 90°C IN OIL	IEC 60243-1	kV	5
FLAT ELECTRIC FORCE	IEC 60243-1	kV/mm	0.5
RELATIVE PERMITTIVITY AT 1MHz	IEC 60250	-	-
DISSIPATION FACTOR AT 1MHz	IEC 60250	-	-
COMPARATIVE TRACKING INDEX (CTI)	IEC 60112	V	-
TRANSVERSE DIELECTRIC RIGIDITY AT OIL	IEC 60243-1	kV/mm	-

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