

Technical data sheet in accordance with ASTM

Material

TPE TP00C501

blue

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Physical properties	nominal range	typical values		
Density ISO 1183	1.19 ±0.02	1.19	g/cm ³	
Hardness ISO 48-4, Shore D	55 ±5	55	Shore	
Tensile modulus ISO 527-1/-2	---	190	MPa	
Tensile Stress at Yield ISO 527-1/-2	---	15	MPa	
Tensile Strain at Yield ISO 527-1/-2 A, 50 mm/min	---	35	%	
Tensile strength ISO 527-1/-2	---	6.9	MPa	
stress at break ISO 527-1/-2	---	40	MPa	
Modulus 50 %, ISO 527-1/-2	---	14	MPa	
Elongation at break ISO-527-1/-2	> 300	---	%	
Flexural modulus ISO 178	---	200	MPa	
Notched impact strength ISO 179/1eA, -40 °C, Charpy	---	30	kJ/m ²	
Notched impact strength ISO 180/1A, -40 °C, Izod	---	115	kJ/m ²	
Abrasion 10, DIN ISO 4649	---	120	mm ³	
Melting point	---	203	°C	
Glass Transition Temperature ISO 11357-1/-2	---	-25	°C	
Heat deflection temperature ISO 75-1/-2, 1,8 MPa	---	45	°C	

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Heat deflection temperature ISO 75-1/-2, 0,45 MPa		---	65	°C
Ausdehnungskoeffizient		---	0.0002	m/m*K
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Thermal conductivity ISO 22007-2		---	0.19	W/m*K
Specific heat capacity ISO 22007-4		---	2.11	kJ/kg*K
Flammability UL 94, HB		---	0	-
Dielectric constant IEC 62631-2-1, 100 Hz		---	4.9	
Dissipation factor IEC 62631-2-1, 100 Hz		---	0.009	
Durchgangswiderstand		---	4e+013	Ohm
Surface resistivity IEC 62631-3-2		> 1e+015	---	Ohm
Dielectrical strength IEC 60243-1		---	20	kV/mm
water adsorption ISO 62		---	0.6	%
humidity absorption ISO 62		---	0.2	%
Low Temperature resistance ISO 974, Brittleness		---	-98	°C

Declarations of conformity

This overview is purely informative and does not constitute a declaration of conformity (DoC). Please refer to the actual declaration of conformity (DoC) including the conditions and its validity period.

Country	Part	Remark	Expires
	Info ROHS and ELV	EU 2000/53 (ELV) including EU 2011/65 and EU2015/863 (ROHS III)	see DoC

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Country Part

PFOA / PFOS free

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No ASTM D2000 properties available

The given values are based on a limited number of tests on standard test pieces (2mm sheets). The data from finished parts can deviate from above values depending on the manufacturing process and the component geometry.

The data represents our present empirical values. It is incumbent on the person placing the order to examine whether it is suitable for its intended purpose, before using the product. All questions regarding the guarantee of this product are in line with our terms and conditions, inasmuch as statutory provisions do not plan for something else.

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