

CERTIFICATE OF QUALITY

Schlemmer - Materialdescription S.R.S. PA 6521 (PA6)

PROPERTY	TESTCONDITION	TESTSPECIFICATION	UNIT	TYPICAL VALUE	
mechanical	Tensile yield strength	ISO 527-1/-2	N/mm ²	85	
	Elongation at yield	ISO 527-1/-2	%	4	
	Flexural strength	ISO 178 / DIN 53452	N/mm ²		
	Flexural modulus	ISO 527-1/-2	N/mm ²	3150	
	Izod impact strength	23 °C	ISO 180/4A	kJ/m ²	
	Charpy impact strength (notched)	23 °C	ISO 179/1eA	kJ/m ²	5,5
	(unnotched)	23 °C	ISO 179/1eU	kJ/M ²	n.b.
Impact strength	23 °C -40 °C	ISO 180/1A	kJ/m ²		
thermal	Melting point	10°C/min	ISO 11357-1/-3	°C	220
	Heat deflection temperature	method A method B	ISO 75-1/-2	°C	60 170
	Vicat softening temperature	50 N	ISO 306 / DIN 53460	°C	
	Glow wire test		IEC 695-2-1	°C	
	Coefficient of linear thermal expansion			mm/mm 10 ⁻⁴ /K	
	Flammability	FMVSS 302	DIN 75200		ok
		UL 94			HB
electrical	Comparison figure of tracking		IEC 60112		600
	Dielectric strength		IEC 60243-1	kV/mm	25
	Surface resistivity		IEC 60093	Ω	
	Volume resistivity		IEC 60093	Ω x m	> 1E13
	Dielectric constant	10 ² Hz 10 ³ Hz 10 ⁶ Hz	IEC 250		
	Dissipation factor	50 Hz 1 MHz	IEC 250 / DIN 53483	10 ⁻⁴	
general	Density		ISO 1183	g/cm ³	1,13
	Water absorption	23 °C 50% r.m.	similar to ISO 62	%	2,5
	Water absorption		similar to ISO 62	%	9,5
	Viscosity number		ISO 307, 1157, 1628	cm ³ /g	245
	Shore - Hardness	D	ISO 868		
	Tensile strength falling off after 5000 h		ISO 2578	°C	

The values given above are, if not particularly noted differently, determined on undyed test parts at room temperature.

The details have to be regarded as guidelines, but not as guaranteed minimum values, because characteristics can be considerable influenced through tool design and processing conditions. This statement is not of binding nature.