LUVOCOM® P 80-7858-B

LUVOCOM® P
Powder-coating solutions

Polyacetal-copolymer
electrostatic coating powder, black

Physical properties		Test method	Specimen	Units	Typical value
Specific gravity		ISO 1183-3		g/cm³	1,45
Water absorption	23°C / 24h	ISO 62	MPTS ISO 3167 A	%	0,15
Melt volume rate (MVR)	190°C / 2,16kg	ISO 1133	pellet	cm³/10 min	21
Linear mould shrinkage		DIN 16742	MPTS ISO 3167 A	%	1,8-2,6
Mechanical properties at 23°C / 50% rh					
Tensile strength	dry, @50 mm/min	ISO 527	MPTS ISO 3167 A	MPa	50
Elongation at maximum force	dry, @50 mm/min	ISO 527	MPTS ISO 3167 A	%	6
Modulus of elasticity	dry, @1 mm/min	ISO 527	MPTS ISO 3167 A	GPa	2,3
Flexural strength	dry, @10 mm/min	ISO 178	MPTS ISO 3167 A	MPa	70
Flexural elongation at max. force	dry, @10 mm/min	ISO 178	MPTS ISO 3167 A	%	7,5
Flexural modulus	dry, @2 mm/min	ISO 178	MPTS ISO 3167 A	GPa	2
Charpy impact strength	dry	ISO 179 1eU	80x10x4mm	kJ/m²	38
Charpy impact strength	dry		80x10x4mm	kJ/m²	38
Charpy impact strength	-30°C	ISO 179 1eU	80x10x4mm	kJ/m²	33
Charpy impact strength, notched	dry	ISO 179 1eA	80x10x4mm	kJ/m²	3
Charpy Impact Strength notched	-30°C	ISO 179 1eA	80x10x4mm	kJ/m²	2,5
Thermal properties					
Vicat softening temp	VST A	DIN ISO 306	MPTS ISO 3167 A	°C	145
Continuous service temperature	20.000 h	IEC 60216	MPTS ISO 3167 A	°C	100
Service temperature	during lifetime max. 200h		MPTS ISO 3167 A	°C	120
Electrical properties					
Insulation resistance strip electrode	R25	DIN IEC 60167	MPTS ISO 3167 A	Ω	$>10^{12}$

Main features

Abrasion resistant tribocoatings with layer thickness of 100 to 300 µm. High crystallinity ensures extra long life time under abrasive load compared to thermoset coatings. At the same time thermoplastic material offers high corrosion resistance.

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Recommended processing parameters

General
Strictly avoid object temperatures > 190 °C. High temperatures cause degradation of the polymer!
Predrying
No predrying necessary.
Processing
In general LUVOCOM® P can be processed on conventional powder coating machines while observing the usual technical guidelines. Used as coating on hot zinc dipped metals this material offers excellent bonding. No primer needed.
Delivery form & storage
LUVOCOM P powder will be delivered in 20 kg paper boxes with PE inliner. Store in dry rooms under normal temperatures. In contrast to thermoset powders storage time of thermoplastic LUVOCOM P powder is not limited.
Additional information
LUVOCOM P materials will not crosslink. Therefore no hold time is needed. Just melt and cool down thermoplastic polymer.

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