

	TECHNICAL DATA SHEET		A_07_SAT_FT_027	
	CARBAICAR - DWF		Edition:	0
			Page:	1 / 1
Issued by:		Revised by:	Approved by:	
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Description

Urea-formaldehyde moulding compound

UF-PMCs - DIN EN ISO 14527

Injection grade - soft flow - low reactivity

Type 131.5 - DIN-E 7708 Teil 3

Particle size: 200 - 2000 µm (微米)

Technical specification	Standard	Unit	Value
Moisture	ERCROS A.07.LVC.IAP.004	%	≤ 6.5
Flow – Brabender	ISO 15062	m · g	500 ± 250
Curing time	ERCROS A.07.LVC.IAP.027	second	100 ± 25
Bulk density	DIN 53466	g/cm ³	0.50 - 0.70

Physical & mechanical properties	Standard	Unit	Value
Flexural strength σ_{fB}	ISO 178	N/mm ²	≥ 80
Charpy impact strength a_{cU}	ISO 179/1eU	kJ/m ²	≥ 5.0
Charpy notched impact strength a_{cA}	ISO 179/1eA	kJ/m ²	≥ 1.1
Moulding shrinkage P_{SL}	DIN 53464	%	0.45 - 0.65
Post shrinkage N_{SL} (168h / 80°C)	DIN 53464	%	≤ 1.10
Density (23 °C)	DIN 53479	g/cm ³	1.50 ± 0.05
Water absorption W_3 (23°C / 96h)	DIN 53495	mg	≤ 250

Thermal properties	Standard	Unit	Value
HDT ($\sigma = 8.00$ MPa)	ISO 75 Verf. C	°C	≥ 90
Flammability - Glow wire 960 °C (BH)	DIN VDE 0304-3 / IEC 707	—	≤ BH 2-10
Flammability - UL (3.0 mm)	UL94	—	V - 0

Electrical properties	Standard	Unit	Value
Dielectric dissipation factor ($\tan \delta - 1$ kHz)	DIN VDE 0303 Teil 4	—	0.02 - 0.03
Volume resistivity	DIN 53482 / VDE 0303-3	$\Omega \cdot \text{cm}$	10 ¹²⁻¹⁴
Surface resistivity R_{OA}	DIN 53482 / VDE 0303-3	Ω	10 ¹¹⁻¹³
Proof tracking index PTI	DIN IEC 112 / VDE 0303-1	V	≥ 600

Packaging

Bags - 25 kg	3-ply paper bags with an inner polyethylene layer, on shrink-wrapped pallets (1000 kg net)
Octabins - 1000 kg / 1200 kg	Cardboard octabins with an inner polyethylene bag.
Big bags - 1000 kg	Raffia polypropylene big bag with an inner polyethylene layer.