

Technical Data Sheet

Product Description

FM S-PVC 80

S80 is a specialty product for flexible PVC articles with excellent mechanical performance, primarily at elevated service temperatures. S80 is a free-flowing powder with porous particles. It may be processed with all standard additives, such as plasticizers, stabilizers, lubricants, fillers and pigments, similarly to S-PVC with a low K-value. S80 is mixed by the standard hot or cold mixing methods. Recommended temperatures are 120° C in the heating mixer and 40°C in the cooling mixer. It can be processed in the form of a blend, agglomerates or granules on all standard equipment, such as extruders, injection moulding machines and calenders. Mixtures containing S80 are mainly used as follows: in the automotive industry to produce high-quality interior and exterior profiles, pedal liners, tubes and tarpaulins, in the construction industry for high-quality PVC-seals and gaskets and for PVC-cables with high thermal stability under load.

Characteristic	Typical Value	Unit	Test Method
<i>K-Value</i>	80±1	g/cm3	ISO 1628-2
<i>Viscosity number</i>	163-175	ml/g	ISO 1628-2
<i>Bulk density</i>	420-480	g/l	ISO 60
<i>Sieve analysis</i>	-	-	-
>63 µm	95-100	%	ISO 4610
>250 µm	0-1	%	ISO 4610
<i>Retained on 0.4 mm sieve</i>	< 1	%	ISO 4610
<i>Porosity (plasticizer absorption)</i>	30-35	% wt	ISO 4608
<i>Volatile matter</i>	< 0.3	%	ISO 1269
<i>Flowability (10mm nozzle)</i>	≤ 35	s/150g	ISO 6168
<i>Residual VCM</i>	≤ 1	PPM	ISO 6401
<i>Dark resin particles</i>	≤ 10	Count/250g	Vinnolit F5
<i>Fish eyes</i>	≤ 2	Counts/25cm ²	Vinnolit H1
<i>Sulfate ash</i>	< 0.1	wt%	ISO 3451-1

Notes: Values shown are averages and are not to be considered as product specification. These values may shift slightly as additional data is accumulated. - ISO test methods are the latest under the society's current procedures.

Production

The monomer feedstocks used in production are registered with REACH, the polymers are exempted from REACH registration according to REACH article 2 (9.).

Handling, Health & Safety

Ensure proper ventilation of the work environment to minimize health and safety hazards from fine particles. Ensure machinery and equipment is properly grounded to prevent sparks that can ignite dust. Molten polymers will cause thermal injuries to organic matter please ensure safety glasses and appropriate safety apparel is worn.

Packing & Storage Conditions

The product is supplied in 25 kg bags on 1375 kg pallets or 1100 kg big bags. For certain destinations dry bulk deliveries are possible using a Dry Bulk Liner for 20ft and 40ft containers. The material should be stored dry and away from direct or indirect sources of heat. Please consult the safety data sheet for information about the safety precautions necessary for transport, storage, blending and processing.



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