Technical Datasheet

HIGH MOLECULAR WEIGHT PVC

VICIR S5000

VICIR S5000 is a very high molecular weight polyvinyl chloride grade, manufactured by means of a suspension polymerisation process. It is a highly porous polymer combining a very good plasticizer absorption with broad processing performances. VICIR S5000 shows unique mechanical properties, increases elasticity of flexible PVC and provides matt surface appearance; it can therefore be used as possible alternative to elastomeric products.

Typical values

Property	Value*	Unit	Test Method
K-value	99	-	ISO 1628-2
Bulk density	0.440	g/cm^3	ISO 60
Size Analysis			ISO 13320-1
> 250µm	≤ 2.5	%	
< 63µm	≤ 4	%	
Volatile content	≤ 0.3	%	ISO 1269
Plasticizer absorption	42	%	ISO 4608
Residual Vinyl Chloride	< 1	ppm	ISO 24538

* Data obtained on representative samples of this grade. These values are typical, for guidance only and must not be used as a basis for specifications.

Applications

VICIR S5000 is recommended for a range of flexible PVC and rubbery type products processed by extrusion such as high-quality profiles (i.e. for automotive interior and exterior applications), wires and cables, and static and dynamic gaskets for window profiles. This grade may also be calendered or injected moulded.
VICIR S5000 provides excellent mechanical properties such as improved tensile strength, tearing strength, wear resistance, fatigue resistance, elasticity and a very low compression set.

Shipping

In general, shipping of the resin is done in bulk.
Most common bulk transport modes are silotrucks and pressurized containers for rail and sea transport.
VICIR S5000 is available in 25 kg multi-ply paper bags as well as in flexible containers (FIBC's) of ca. 750 or 1000 kg

Storage

The resin must be stored in a dry area under moderate temperature conditions (maximum 30 ºC) and avoid direct UV light exposure.

Safety

For information on the safety precautions please refer to our safety data sheet (SDS) of VICIR S-PVC.
The SDS can be sent on request.

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