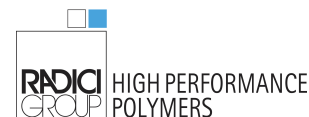


CAMPUS® Datasheet

RADILON S BF 990 GY - PA6

RadiciGroup High Performance Polymers



Product Texts

PA6 injection moulding grade. Low friction. Natural grey colour.

Suitable for parts and components requiring low friction and improved wear resistance, such as gears, bearings, and cams.

ISO 1043: PA6

Rheological properties	dry / cond	Unit	Test Standard
Molding shrinkage, parallel	0.9 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.9 / *	%	ISO 294-4, 2577
Mechanical properties	dry / cond	Unit	Test Standard
Tensile modulus	3300 / -	MPa	ISO 527-1/-2
Yield stress	75 / -	MPa	ISO 527-1/-2
Yield strain	5 / -	%	ISO 527-1/-2
Nominal strain at break	25 / -	%	ISO 527-1/-2
Charpy notched impact strength, +23°C	5 / -	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	4 / -	kJ/m ²	ISO 179/1eA
Thermal properties	dry / cond	Unit	Test Standard
Melting temperature, 10°C/min	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	70 / *	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	200 / *	°C	ISO 306
Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested (h)	0.8 / *	mm	IEC 60695-11-10
Burning rate, Thickness 1 mm	0	mm/min	ISO 3795 (FMVSS 302)
Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	1E13 / 1E11	Ohm*m	IEC 62631-3-1
Surface resistivity	* / 1E10	Ohm	IEC 62631-3-2
Other properties	dry / cond	Unit	Test Standard
Density	1140 / -	kg/m ³	ISO 1183

Characteristics

Processing

Injection Molding

Additives

Release agent

Delivery form

Granules

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Other text information

Injection molding

The material is delivered in moisture-proof packaging ready for processing. Maximum recommended water content for best processing is 0.15%. Typical conditions with a desiccant drier: temperature 80 °C, dew point -20 °C or below, time 2-4 h or more. Special care must be taken to avoid moisture absorption and contamination with other polymers when adding regrind material. Colour variation and mechanical properties reduction may occur and should always be carefully monitored.

Injection Molding Processing Parameters

Melt Temperature	Mold Temperature	Injection Speed
250 - 280°C	70 - 80°C	medium

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The information provided in this documentation corresponds to knowledge of Radici Group High Performance Polymers on the subject at the date of its publication. This information may be subject to revision as new knowledge and experience become available. The data provided reflects the average values of the properties measured over an adequate number of different production cycles and relates only to the designated material; this data may not be valid for such material used in combination with any other materials or additives or in any process, unless expressly indicated otherwise. The data provided should not be used to establish specification limits nor used alone as the basis of design; it is not intended to substitute for any testing you may need to conduct to determine for yourself the suitability of a specific material for your particular purposes. Since Radici Group High Performance Polymers cannot anticipate all variations in actual end-use conditions Radici Group High Performance Polymers makes no warranties and assumes no liability in connection with any use of this information. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent rights.