

LATIGRAY 47/1-01 CX/45
Radiopaque compound based on Polypropylene copolymer (PPc). Special mineral filler.

PHYSICAL PROPERTIES	STANDARD	VALUE MEASURE UNITS
Density	ISO 1183	1.37 g/cm³
Linear shrinkage at moulding		
Longitudinal (2.0mm/60MPa)	ISO 294-4	1.40 ÷ 1.80 %
Transversal (2.0mm/60MPa)	ISO 294-4	1.40 ÷ 1.80 %
MECHANICAL PROPERTIES	STANDARD	VALUE MEASURE UNITS
CHARPY impact strength		
Unnotched, at +23°C	ISO 179-1eU	NB
Notched, at +23°C	ISO 179-1eA	NB
Tensile elongation		
At yield (5 mm/min), 23°C	ISO 527 (1)	>10.0
At break (5 mm/min), 23°C	ISO 527 (1)	>100.0
Tensile strength		
At break (5 mm/min), 23°C	ISO 527 (1)	5 MPa
Elastic modulus		
Tensile (speed 1 mm/min), at 23°C	ISO 527 (1)	100 MPa



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THERMAL PROPERTIES	STANDARD	VALUE MEASURE UNITS
VICAT - Softening point		
50 N (heating rate 50°C/h)	ISO 306	60 °C
HDT - Heat Deflection Temperature		
0.45 MN/m ²	ISO 75	50 °C
1.81 MN/m ²	ISO 75	40 °C
ELECTRICAL PROPERTIES	STANDARD	VALUE MEASURE UNITS
Electrical resistivity		
Surface	ASTM D 257	1E12 ohm



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MATERIAL - STORAGE

Sealed, undamaged packages has to be kept in dry storage facilities, providing they are also able to protect them from weather and accidental damage.

HANDLING AND SAFETY

Detailed information about a safe treatment of the material are indicated in the "Material Safety Data Sheet" (MSDS) furnished with the first material supply. The MSDS may be also sent again in case of loss.

PREDRYING CONDITIONS

At least 3 hours at 80 ÷ 90°C

These are the suggested conditions to reduce the moisture content to adequate levels. Temperature and drying time can be reduced by using vacuum ovens. Particularly wet material may need a longer drying time.

ACTUAL MELT TEMPERATURE

200 ÷ 240°C

The injection moulding machine settings needed to obtain the suggested melt temperature will depend greatly on shot size and machine capacity, as well as other moulding parameters such as: injection speed, screw RPM, back pressure, etc. On small machines, running short cycles, it is possible to use higher melt temperatures to improve plastification, fluidity and surface appearance, paying attention to any indication of material degradation.

MOULD TEMPERATURE

40 ÷ 60°C

The mould temperature suggested above is the actual tool steel temperature. This can be significantly different from the tool settings, due to the cooling system efficiency and the accuracy of the temperature control on the tool.

INJECTION SPEED

High

The advisable injection speed greatly depends on cavity geometry and injection moulding machine size. The use of high injection speed can improve the surface appearance, but it can also cause outgassing and burn marks due to overheating through shear stress.

REGRIND USAGE

The use of regrind is possible, but should be assessed on the basis of the project, moulding parameters, and type of grinding used. The effect of using regrind on material properties must be evaluated by the customer on its specific project and process. High percentages of regrind may cause a reduction in viscosity, reducing mechanical properties, first resilience.

HOT RUNNER MOULDS

Hot runner moulds may be used when a very tight temperature control is assured.



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TO AVOID

In order to prevent any material degradation, over-dimensioned machines should be avoided.

NOTES

The products mentioned herein are not suitable for applications in contact with foodstuff or for potable water transportation, or for toy manufacturing. Versions of product mentioned herein may support applications in the pharmaceutical, medical or dental sector. However, manufactured parts have to be verified according to the specific directives.

CONTACTS

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Values shown are based on testing of injection moulded laboratory test specimens, conditioned according to the standard and represent data that fail within the standard range of properties for non-coloured material, if not otherwise specified. As they may be subject to variations, these values do not represent a sufficient basis for any part design and are not intended for use in establishing values for specification purposes. Properties of moulded parts can be influenced by a wide range of factors including, but not limited to, colorants, part design, processing conditions, post-treatment conditions and usage of reprind during the moulding process. If data are explicitly indicated as provisional, range of properties has to be considered wider. This information and technical assistance are provisional, range of properties has to be considered wider. This information and technical assistance are provisional, range of properties has to be considered wider. This information and technical assistance are provisional, range of properties has to be considered wider. This information provided, and assume no responsibility for impressional provisional, range of properties has been been considered wider. This information provided, and assume no responsibility for impressional provided, and assume no responsibility for impressional provided, and assume no responsibility for impressional provided. The customers are sufficiently of the information provided, and assume no responsibility for impression and provided assume no responsib

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