

	Test method	Unit	Value
RHEOLOGICAL PROPERTIES			
<b>Melt Flow Rate</b> (230°C, 2,16 kg load) (270°C, 2,16 kg load)	ISO 1133	g/10 min	9 – 16 40 – 55
Molding shrinkage $(60 \times 60 \times 2 mm)$	ISO 294-4	%	1.2 - 2.0
MECHANICAL PROPERTIES			
Tensile strength (20 mm/min) Elongation at break (20 mm/min)	ISO 527 ISO 527	MPa %	70 70
Tensile modulus (1 mm/min) Flexural stress (2 mm/min)*	ISO 527 ISO 178	MPa MPa	2500 77
Flexural modulus (2 mm/min) Charpy impact strength (+23°C)	ISO 178 ISO 179/1eU	MPa kJ/m²	2300 n. b.
Charpy impact strength $(-30  ^{\circ}C)$ Charpy notched impact strength $(+23  ^{\circ}C)$	ISO 179/1eU ISO 179/1eA	$kJ/m^2$ $kJ/m^2$	75 8
Charpy notched impact strength $(-30^{\circ}C)$	ISO 179/1eA	$kJ/m^2$	5
THERMAL PROPERTIES			
Melting point (10 °C/min)	ISO 3146	$^{\circ}C$	217
Temp. of deflection under load 0.45 MPa 1.80 MPa	ISO 75-1/-2	$^{\circ}C$	130 - 140 45 - 55
Vicat softening point $(50  {}^{\circ}C/h)$	ISO 306	°C	-
ELECTRICAL PROPERTIES			
Volume resistivity	IEC 60093	$Ohm \times m$	$10^{13}$
Surface resistivity	IEC 60093	Ohm	$10^{13}$
Comparative tracking index	IEC 60112		-
OTHER PROPERTIES			
Water absorption, % 24h/23°C 30 min at boiling	Sim. to ISO 62	%	2.2 2.5
Moisture absorption from air Density	Sim. to ISO 62 ISO 1183	%g/cm³	2.5 1.13

<sup>\*</sup> – deflection equal to 1.5 times the thickness of the test speciment n. b. – no break

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## **CHARACTERISTICS**

Base injection molding grade of general purpose, which contains modifying additives that improve its molding characteristics.

#### **APPLICATION**

Used for injection molding of different parts in automotive, mechanical engineering, instrument-making, where fast processing is required, including production of thin-walled parts.

### **PREPROCESSING**

Processing moisture content < 0.2 %.

If drying becomes necessary:

- drying in dehumidified dryer, drying temperature 80°C,
- drying time is dependent on moisture level.

## **PROCESSING**

Melt temperature 230 ÷ 260 °C. To avoid degradation it is recommended to limit injection molding temperature to 290 °C.

Injection pressure 80 ÷ 130 MPa, recommended 80 MPa.

Mold temperature 50 ÷ 90 °C. A higher mold temperature leads to higher shrinkage.

## **COLOUR**

By customer's request it can be manufactured in pigmented version.

#### RECYCLING

Clean milled post production wastes could be recycled after mixing with fresh plastics. The amount of milled plastic added to natural plastic is controlled depending on final product quality requirements, it may reach up to 50 %. Final product properties depend rather more on quality of recycled or milled polyamide then on its share. Attention shall be paid not to use milled scraps having more than 0.2 % water.

# **PACKAGING**

- 1) PET/ALU/PE bags with/without a degassing valve. The bags are stacked on a pallet with the following stretch-foiling. Bag weight: 25 kg net. Pallet weight: 1000 kg. Quantity to be loaded in a truck (82m³) and 40' marine container: 20000 kg net (20 pallets).
- 2) Polyethylene bags with a valve. The valve is sealed with scotch film. The bags are stacked on a pallet with the following stretch-foiling. Bag weight: 30 kg net. Pallet weight: 960 kg / Bag weight: 25 kg net. Pallet weight: 1000 kg. Quantity to be loaded in a truck (82m³) and 40'' marine container: 20160 kg net (21 pallets) / 20000 kg net (20 pallets).

Data given are average values and should not be used for specification purpose. In order to check the availability of products please contact our sales office.

SALES OFFICE

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