AURORA Kunststoffe GmbH
MEMBER OF MOL GROUP

AUROmid®

PA12 9700 3-TR90 bk

AUROmid® PA12 9700 3-TR90 bk is a sustainable unfilled, injection molding grade with high chemical resistance. Contains sorted post-industrial plastic parts and sprues.

PROPERTIES	TEST CONDITION	UNIT	STANDARD	GUIDE VALUE	
				d.a.m.	cond.
RHEOLOGICAL PROPERTIES					
MVR	275°C/5kg	cm³/10min	ISO 1133	15-40	-
Molding shrinkage, parallel	60x60x2, MT 80°C	%	ISO 294-4	-	-
Molding shrinkage, transverse	60x60x2, MT 80°C	%	ISO 294-4	-	-
MECHANICAL PROPERTIES (23°C / 50% R.H.)					
Tensile modulus	1mm/min	MPa	ISO 527-1,-2	1700	-
Stress at yield	50mm/min	MPa	ISO 527-1,-2	70	-
Strain at break	50mm/min	%	ISO 527-1,-2	8	-
Charpy impact strength	23°C	kJ/m²	ISO 179-1eU	NB	-
Charpy notched impact strength	23°C	kJ/m²	ISO 179-1eA	8	-
THERMAL PROPERTIES					
Glass transition temperature	10°C/min	°C	ISO 11357-1,-3	155	-
HDT/A	1,8 MPa	°C	ISO 75,-1,-2	-	-

PROPERTIES	TEST CONDITION	UNIT	STANDARD	GUIDE VALUE	
				d.a.m.	cond.
PHYSICAL PROPERTIES					
Density		kg/m³	ISO 1183	1000	-
Water absorption (saturation)	Water, 23°C	%	ISO 62	3,5	-
Water absorption (equilibrium)	23°C; 50 % r.h.	%	ISO 62	2	-
PROCESSING GUIDELINES					
Drying temperature		°C		80	-
Drying time		h		4-8	-
Residual moisture content		%		<0,08	-
Melt temperature		°C		220-260	-
Mold temperature		°C		80-100	-

*Not accredited measurement

Disclaimer

Warranty, liability and typical properties

The data provided in this data sheet are based on the information available at the time of publication. No warranted characteristics and guarantee can be derived from this data. Product properties may be influenced and changed by a wide range of factors (e.g. tool design, processing conditions ...). We exclude any liability for improper use of the product described in this data sheet. The processor shall conduct comprehensive internal tests regarding the suitability of the product for the intended application.

This product contains recycled raw materials. Depending on the source and composition of the input streams, property deviations of approximately 10–20% are possible.

Our standard terms and conditions are to be applied.

Further information

This product is not permitted to be sold for use in medical applications involving any implantation in the human body or where contact with internal body fluids or tissues will equal or exceed 24 hours.

This product has to be stored under 30°C dry and protected from light.

Please contact our company for further informations (e.g. MSDS).

Trademarks

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