

(TDS) TECHNICAL DATA SHEET

AUROLen® PE-HD natural

Product description AUROLen® PE-HD natural is a regranulated high density polyethylene injection molding grade. Contains sorted post-industrial plastic parts and sprues.

Typical applications Automotive blends, canisters

ISO 16396 >PE-HD<

Properties	Test condition	Unit	Standard	Guide value	
				d.a.m.	cond.
Rheological properties					
MVR	190°C, 2,16 Kg	cm³/10min	ISO 1133	6-8	-
Molding shrinkage, parallel	60x60x2, MT 30°C	%	ISO 294-4	-	-
Molding shrinkage, transverse	60x60x2, MT 30°C	%	ISO 294-4	-	-
Mechanical properties (23°C / 50% r.h.)					
Tensile modulus	1mm/min	MPa	ISO 527-1,-2	900	-
Stress at yield	50mm/min	MPa	ISO 527-1,-2	22	-
Strain at yield	50mm/min	MPa	ISO 527-1,-2	10	-
Charpy impact strength	23°C	kJ/m²	ISO 179-1eU	NB	-
Charpy impact strength	-30°C	kJ/m²	ISO 179-1eU	-	-
Charpy notched impact strength	23°C	kJ/m²	ISO 179-1eA	10	-
Charpy notched impact strength	-30°C	kJ/m²	ISO 179-1eA	5	-
Thermal properties					
Melting Point	10°C/min	°C	ISO 11357-1, -3	131	-
Vicat B50		°C	ISO 306	-	-
HDT/A	1,8 MPa	°C	ISO 75,-1,-2	-	-
Burning behavior (UL94*)	1,5mm	Class	UL 94*	HB	-
Physical properties					
Density		kg/m³	ISO 1183	945	-
Water absorption (saturation)	Water, 23°C	%	ISO 62	<0,1	-
Water absorption (equilibrium)	23°C; 50 % r.h.	%	ISO 62	<0,1	-
Processing guidlines					
Drying temperature		°C		-	-
Drying time		h		-	-
Residual moisture content		%	Karl Fischer	-	-
Melt temperature		°C		180-250	-
Mold temperature		°C		-	-
Other properties					

*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.

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).

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