RILSAN® HT

TECHNICAL DATA SHEET

RILSAN® HT CMNO

POLYPHTALAMIDE PELLET

RILSAN® HT CMNO is a polyphtalamide resin. It is partially produced from a renewable & sustainable source (castor oil).

MAIN APPLICATIONS

- Winter Sports - Ski Boots
- Compounding
- Industry - Distribution
- Other Transportation
- Auto - Others Injection

DELIVERY FORM

- Pellets

RHEOLOGICAL PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Shrinkage, Parallel (t+24h)	1.3	%	ISO 294-4
Shrinkage, Normal (t+24h)	1.2	%	ISO 294-4
Melt volume flow rate (MVR), 255°C / 2.16kg (491°F / 4.4 lb)	10	cm^3/10min	ISO 1133

MECHANICAL PROPERTIES

PROPERTIES	DRY / COND VALUE*	UNIT	TEST STANDARD
Tensile modulus, 23°C (73°F), 1 mm/min	-/ 2025	MPa	ISO 527-1/-2
Yield stress, 23°C (73°F), 50 mm/min	-/ 64	MPa	ISO 527-1/-2
Yield strain, 23°C (73°F), 50 mm/min	-/ 4	%	ISO 527-1/-2
Stress at break, 23°C (73°F), 50 mm/min	-/ 45	MPa	ISO 527-1/-2
Strain at break, 23°C (73°F), 50 mm/min	-/ 6	%	ISO 527-1/-2
Charpy unnotched impact strength, 23°C (73°F)	-/ 38	kJ/m2	ISO 179 1eU
Charpy unnotched impact strength, -30°C (-22°F)	-/ 59	kJ/m2	ISO 179 1eU
Charpy notched impact strength, 23°C (73°F)	-/ 6	kJ/m2	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	-/ 8	kJ/m2	ISO 179 1eA
Hardness, shore D, 15 s	-/ 81		ISO 868

*DRY: Dry As Molded (DAM) if pellet / Dry if powder.
COND: Conditionned.

THERMAL PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Glass transition temperature, 10°C/min	82	°C	ISO 11357-1/-2
Melting temperature, 10°C/min	255	°C	ISO 11357-1/-3

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OTHER PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Density, 23°C (73°F)	1.1	g/cm³	ISO 1183-1

SHELF LIFE

Two years from the date of delivery, when stored properly (sealed bags, appropriate moisture, UV protection and temperature). For any use above this limit, please refer to our technical services.

Headquarters: Arkema France
51, Esplanade du Général de Gaulle
92800 Puteaux – France
T +33 (0)1 49 00 80 80