

RILSAN® KMVO TL

Rilsan® KMVO TL is a polyamide 11 produced from a renewable source. This natural grade is designed for extrusion.

MAIN CHARACTERISTICS

Property	Typical Value	Unit	Test Method
Nature & Designation	PA11, MHL, 18-010		ISO 1874
Renewable Carbon (calculation)	> 96	%	ASTM D6866
Density	1.03	g/cm ³	ISO 1183
Melting Point	369 (187)	°F (°C)	ISO 11357
Hardness (*) Instantaneous After 15 s	75 71	Shore D Shore D	ISO 868
Tensile Test (*) Stress at yield Strain at yield Stress at break Strain at break	5,800 (40) 5 7,540 (53) >200	psi (MPa) % psi (MPa) %	ISO 527
Flexural Modulus (*)	145,000 (1000)	psi (MPa)	ISO 178
Charpy Impact (*) Unnotched 73°F (23°C) Unnotched -22°F (-30°C) V-notched 73°F (23°C) V-notched -22°F (-30°C)	No break No break 5.7 (12) 6.7 (14)	ft lb/in ² (kJ/m ²) ft lb/in ² (kJ/m ²) ft lb/in ² (kJ/m ²) ft lb/in ² (kJ/m ²)	ISO 179

(*) Samples conditioned 15 days at 23°C - 50 % R.H.

MAIN APPLICATIONS

- Injected parts.

PROCESSING CONDITIONS

Conditions	Typical values
Injection Melt Temperature (Min / Recommended / Max)	445°F / 480°F / 535°F 230°C / 250°C / 280°C
Mold Temperature	68 -140°F (20 – 60°C)
Drying (only necessary for bags opened for more than two hours) Time Temperature	4 - 8 hours 176°F (80°C)

PACKAGING

This grade is delivered dried in sealed packaging (44 lb bags) ready to be processed.

SHELF LIFE

Two years from the date of delivery. For any use above this limit, please refer to our technical services.

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See Safety Data Sheet for Health & Safety Considerations.