+135-3858-6433 (GuangDong)
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RILSAN® CLEAR G 170 MED

Rilsan® Clear G 170 MED is a high performance transparent polyamide with outstanding thermal resistance. This grade offers the highest quality and is specifically designed to meet the stringent requirements of the medical applications. Upon request letters regarding USP Class VI compliance can be provided.

MAIN CHARACTERISTICS

Property	Typical Value	Unit	Test method
Density	**1.05**	g/cm³	ISO 1183
Water Absorption at Equilibrium At 23°C and 50% R.H. **Water Absorption** After 24 h at 23°C in water	 **1.3** **3.2**	 % %	ISO 62
Glass Transition Temperature (Tg)	**168**	°C	ISO 11357
Heat Deflection Temperature Under 0.45 MPa Under 1.80 MPa	 **150** **136**	 °C °C	ISO 75
Transparency (560 nm, 2 mm)	**90.8**	%	ASTM D 1003-97
Shrinkage (after 24 h, 4 mm, mold at 40°C) // ⊥	 **0.69** **0.72**	 % %	Internal method
Hardness (*) Instantaneous After 15 s	 **84** **79**	 Shore D Shore D	ISO 868
Tensile Test (*) Stress at Yield Strain at Yield Stress at Break Strain at Break	 **74** **9** **58** **> 100**	 MPa % MPa %	ISO 527
Tensile Modulus (*)	**2020**	MPa	ISO 527
Flexural Modulus (*)	**1980**	MPa	ISO 178
Charpy Impact (*) Unnotched 23°C Unnotched -30°C V-notched 23°C V-notched -30°C	 **No break** **No break** **13** **13**	 kJ/m² kJ/m² kJ/m² kJ/m²	ISO 179

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

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MAIN APPLICATIONS

- Medical perfusion tube accessories.
- Breathing mask.

PROCESSING CONDITIONS

Conditions	Typical values
Injection Melt Temperature (Min / Recommended / Max)	**270°C / 290°C / 310°C**
Extrusion Melt Temperature (Min / Recommended / Max)	**270°C / 280°C / 290°C**
Mold Temperature	**40 – 80°C**

Drying (only necessary for bags opened for more than two hours) Time Temperature	**4 - 6 hours** **90°C**

PACKAGING

This grade is delivered dried in sealed packaging (25 kg bags) ready to be processed.

ARKEMA
INNOVATIVE CHEMISTRY