

# RILSAN®

## TIEFLEX R463 NAT TL

**Rilsan® TIEFLEX R463 NAT TL resin** is a flexible tie layer alloy partially based on renewable resources. This grade is designed for air brake application (tie layer for air brake tubing).

### Packaging:

This grade is delivered dried in sealed packaging (25kg 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.

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
<b>RHEOLOGICAL PROPERTIES</b>			
Melt Volume-Flow Rate	8 / *	cm <sup>3</sup> /10 min	ISO 1133
Temperature	235 / *	°C	-
	455 / *	°F	-
Load	5 / *	kg	-
	11 / *	lb	-
<b>MECHANICAL PROPERTIES</b>			
Tensile Modulus	- / 500	MPa	ISO 527-1/-2
	- / 72500	psi	
Yield Stress	- / 28	MPa	ISO 527-1/-2
	- / 4060	psi	
Yield Strain	- / 50	%	ISO 527-1/-2
Nominal Strain at Break	- / >50	%	ISO 527-1/-2
Charpy Impact Strength, +23°C	- / No Break	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy Impact Strength, -30°C	- / No Break	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	- / No Break	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	- / 8	kJ/m <sup>2</sup>	ISO 179/1eA
	- / 3.81	ftlb/in <sup>2</sup>	
<b>THERMAL PROPERTIES</b>			
Melting Temperature, 10°C/min	214 / *	°C	ISO 11357-1/-3
<b>OTHER PROPERTIES</b>			
Density	1080 / -	kg/m <sup>3</sup>	ISO 1183
	1.08 / -	g/cm <sup>3</sup>	

### Processing conditions

- Typical melt temperature (min / recommended / max): 220°C / 230°C / 240°C
- Drying time and temperature (only necessary for bags opened for more than two hours): 4-6 hours at 80°C

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<b>PROCESSING</b> Profile Extrusion, Other Extrusion	Headquarters: Arkema France 420 rue d'Estienne d'Orves 92705 Colombes Cedex France T +33 (0)1 49 00 80 80 hpp.arkema.com  Arkema Inc. – High Performance Polymers 900 First Avenue King of Prussia, PA 19406 Tel.: +1 610 205 7000 hpp.arkema.com
<b>DELIVERY FORM</b> Pellets	
<b>REGIONAL AVAILABILITY</b> North America, Europe, Asia Pacific, South and Central America, Near East/Africa	

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