

RILSAN®

TIEFLEX S452 BLACK T6L

Rilsan® TIEFLEX S452 BLACK T6L resin is a flexible tie layer alloy partially based on renewable resources. This grade is designed for multilayer automotive and trucks fuel lines (tie layer for fuel line). In the case of direct contact with fuel, contact Arkema representative for recommendations.

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
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	3.4 / *	cm ³ /10 min	ISO 1133
Temperature	235 / *	°C	-
	455 / *	°F	-
Load	5 / *	kg	-
	11 / *	lb	-
MECHANICAL PROPERTIES			
Tensile Modulus	685 / 515	MPa	ISO 527-1/-2
	99400 / 74700	psi	
Yield Stress	- / 33	MPa	ISO 527-1/-2
	- / 4790	psi	
Yield Strain	- / 31	%	ISO 527-1/-2
Nominal Strain at Break	- / >50	%	ISO 527-1/-2
Charpy Impact Strength, +23°C	- / No Break	kJ/m ²	ISO 179/1eU
Charpy Impact Strength, -30°C	- / No Break	kJ/m ²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	- / 95	kJ/m ²	ISO 179/1eA
	- / 45.2	ftlb/in ²	
Charpy Notched Impact Strength, -30°C	- / 6.5	kJ/m ²	ISO 179/1eA
	- / 3.09	ftlb/in ²	
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	217 / *	°C	ISO 11357-1/-3
OTHER PROPERTIES			
Water Absorption, 23°C, immersion, equilibrium	2.9 / *	%	ISO 62
Humidity Absorption, 23°C, RH50%, equilibrium	1.2 / *	%	ISO 62
Density	1090 / -	kg/m ³	ISO 1183
	1.09 / -	g/cm ³	

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Source: automatically generated TDS from Material Database on 20-02-2024

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Processing conditions

- Typical melt temperature (min / recommended / max): 220°C / 230°C / 270°C
- Drying time and temperature (only necessary for bags opened for more than two hours): 4-6 hours at 80°C

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

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