

Rilsan® HT CESVO P223 TL

Polyphthalamide

Arkema

Message:

Rilsan ® HT CESVO P223 TL is a flexible polyphthalamide produced from a renewable source, typically used to replace metal in tubing for high-temperature automotive, transportation and other demanding technical applications.

MAIN APPLICATIONS

Flexible thermoplastic lines for use in automotive aggressive media or vacuum management systems.

Air Intake hoses.

Industrial pneumatic lines.

Cable sheathing.

General Information			
Features	Good Flexibility		
	Renewable Resource Content		
Uses	Automotive Applications		
	Tubing		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.03	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/2.16 kg)	3.00	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	22.0	MPa	ISO 527-2
Tensile Strain (Break)	> 130	%	ISO 527-2
Flexural Modulus	520	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-40°C	9.0	kJ/m ²	
23°C	76	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	255	°C	ISO 11357-3
Additional Information	Nominal Value	Unit	Test Method
Hoop Stress			
23°C	18.0	MPa	
150°C	3.50	MPa	
Renewable Carbon Content	38	%	ASTM D6866

Extrusion	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	8.0	hr
Melt Temperature	270 to 290	°C

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