

Rilsan® HT CESV BLACK P123 TL

Polyphthalamide

Arkema

Message:

Rilsan ® HT CESV BLACK P123 TL is a flexible polyphthalamide produced from a renewable source, typically used to replace metal in tubing for high temperature and/or demanding technical applications such as requiring high hydrolysis resistance.

MAIN APPLICATIONS

Cooling and selective catalyst reduction lines for automotive & transportation.

General Information			
Features	Good Flexibility		
	Hydrolysis Resistant		
	Renewable Resource Content		
Uses	Automotive Applications		
	Tubing		
Appearance	Black		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/5.0 kg)	1.21	cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	73		
Shore D, 15 sec	68		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1150	MPa	ISO 527-2
Tensile Stress (Break)	36.0	MPa	ISO 527-2
Tensile Strain (Break)	> 130	%	ISO 527-2
Flexural Modulus	1100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	18	kJ/m ²	
23°C	73	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			

0.45 MPa, Unannealed	103	°C	ISO 75-2/B
1.8 MPa, Unannealed	81.0	°C	ISO 75-2/A
Melting Temperature	270	°C	ISO 11357-3
Additional Information	Nominal Value	Unit	Test Method
Hoop Stress			
23°C	34.0	MPa	
150°C	6.90	MPa	
Renewable Carbon Content	45	%	ASTM D6866
Extrusion	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	8.0	hr	
Melt Temperature	270 to 300	°C	

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