# Rilsan® HT CESV BLACK P010-HP TL

### Polyphthalamide

#### Arkema

## Message:

Rilsan ® HT CESV BLACK P010-HP 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 requiring high burst resistance. MAIN APPLICATIONS

Thermoplastic lines for automotive & transportation applications such as high temperature vacuum systems, aggressive media and oil management systems, selective catalyst reduction lines, etc.

Hydraulic lines.

General Information			
Features	Good Flexibility		
	Renewable Resource Content		
Uses	Automotive Applications		
	Tubing		
Appearance	Black		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.07	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/5.0		_	
kg)	14.0	cm <sup>3</sup> /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1580	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	48.0	MPa	
Break	47.0	MPa	
Tensile Strain			ISO 527-2
Yield	4.5	%	
Break	> 100	%	
Flexural Modulus	1500	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-40°C	11	kJ/m²	
23℃	60	kJ/m²	
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	255	°C	ISO 11357-3
Additional Information	Nominal Value	Unit	Test Method
Renewable Carbon Conent	55	%	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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