

Rilsan® HT CESV P010 TL

Polyphthalamide

Arkema

Message:

Rilsan ® HT CESV P010 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

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

Hydraulic and pneumatic lines.

General Information			
Features	Good Flexibility		
	Renewable Resource Content		
Uses	Automotive Applications		
	Tubing		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.02	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR)			ISO 1133
300°C/2.16 kg	0.500	cm ³ /10min	
300°C/5.0 kg	3.10	cm ³ /10min	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	74		
Shore D, 15 sec	64		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	880	MPa	ISO 527-2
Tensile Stress (Break)	41.0	MPa	ISO 527-2
Tensile Strain (Break)	> 130	%	ISO 527-2
Flexural Modulus	820	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-40°C	14	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	30.0	MPa	
150°C	5.00	MPa	
Renewable Carbon Content	> 45	%	ASTM D6866
Extrusion	Nominal Value	Unit	
Drying Temperature	100 to 110	°C	
Drying Time	4.0 to 8.0	hr	
Melt Temperature	270 to 300	°C	

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