

Rilsamid® AESN Noir P302 TL

Polyamide 12

Arkema

Message:

Rilsamid ® AESN Noir P302 TL is a black coloured polyamide. This grade is plasticized and designed for tube extrusion. AESN Noir P302 TL falls into the PA12-HIPHL category according to DIN 73378.

MAIN APPLICATIONS

- Air brake.
- Tubing for use in motor vehicles.

General Information			
Additive	Plasticizer		
Uses	Automotive Applications		
	Tubing		
Appearance	Black		
Processing Method	Pipe Extrusion		
Multi-Point Data	Creep Modulus vs. Time (ISO 11403-1)		
	Isochronous Stress vs. Strain (ISO 11403-1)		
	Isothermal Stress vs. Strain (ISO 11403-1)		
	Secant Modulus vs. Strain (ISO 11403-1)		
	Shear Modulus vs. Temperature (ISO 11403-1)		
	Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Nominal Value	Unit	Test Method
Density	1.03	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (235°C/5.0 kg)	18.0	cm³/10min	ISO 11357
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	71		
Shore D, 15 sec	64		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	400	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	25.0	MPa	
Break	54.0	MPa	
Tensile Strain			ISO 527-2
Yield	26	%	
Break	> 200	%	
Flexural Modulus	350 to 450	MPa	ISO 178

Taber Abrasion Resistance (1000 Cycles, 1000 g, CS-17 Wheel)	6.00	mg	ISO 9352
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	6.0	kJ/m ²	
23°C	No Break		
Charpy Unnotched Impact Strength			ISO 179
-30°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	173	°C	ISO 11357-3
Additional Information	Nominal Value		Test Method
ISO Shortname	PA12-HIP, EHL, 22-004		ISO 1874
Extrusion	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	4.0 to 6.0	hr	
Melt Temperature	200 to 240	°C	

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