

Rilsamid® AESN Noir P40 TL

Polyamide 12

Arkema

Message:

Rilsamid ® AESN Noir P40 TL is a black coloured polyamide. This grade is plasticized and designed for tube extrusion. AESN Noir P40 TL falls into the PA12-PHL 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)		
	Specific Volume vs Temperature (ISO 11403-2)		
	Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Nominal Value	Unit	Test Method
Density	1.03	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (235°C/5.0 kg)	10.0	cm ³ /10min	ISO 11357
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	70		
Shore D, 15 sec	62		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	445	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	27.0	MPa	
Break	47.0	MPa	
Tensile Strain			ISO 527-2
Yield	27	%	
Break	> 200	%	
Flexural Modulus	350 to 450	MPa	ISO 178

Taber Abrasion Resistance (1000 Cycles, 1000 g, CS-17 Wheel)	9.00	mg	ISO 9352
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	5.0	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	174	°C	ISO 11357-3
Additional Information	Nominal Value		Test Method
ISO Shortname	PA12-P, EHL, 22-004		ISO 1874
Extrusion	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	4.0 to 6.0	hr	
Melt Temperature	210 to 260	°C	

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