

Rilsamid® AESNO P40 TL

Polyamide 12

Arkema

Message:

Rilsamid ® AESNO P40 TL is a natural polyamide. This grade is plasticized and designed for tube extrusion. AESNO 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	Natural Color		
Processing Method	Pipe Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.03	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (235°C/5.0 kg)	16.0	cm ³ /10min	ISO 11357
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	71		
Shore D, 15 sec	62		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	380	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	23.0	MPa	
Break	52.0	MPa	
Tensile Strain			ISO 527-2
Yield	25	%	
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	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	175	°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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