

Akulon® F132

Polyamide 6
DSM Engineering Plastics

Message:

Akulon® F132 is a polyamide 6 (nylon 6) material. This product is available in Europe, and the processing method is: film extrusion. Akulon®The main characteristics of F132 are: high viscosity.
Akulon®The typical application areas of F132 are: movies

General Information			
Features	Viscosity, High		
Uses	Films		
Processing Method	Film extrusion		
Multi-Point Data	Specific Volume vs Temperature (ISO 11403-2)		
	Viscosity vs. Shear Rate (ISO 11403-2)		

Physical	Nominal Value	Unit	Test Method
Density	1.13	g/cm³	ISO 1183
Viscosity Number	210	cm³/g	ISO 307

Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction			ISO 8295
Dynamic, cast film	1.0		ISO 8295
Static, cast film	1.2		ISO 8295

Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	
Tensile Modulus ¹ (50 µm, Cast Film)	450	MPa	Internal method
Tensile Stress - MD			ISO 527-3
Yield, 50 µm, cast film	32.0	MPa	ISO 527-3
Fracture, 50 µm, cast film	83.0	MPa	ISO 527-3
Tensile Elongation - MD (Broken, 50 µm, cast film)	350	%	ISO 527-3
Trouser Tear Resistance - MD (50 µm, Cast Film)	32.0	N/mm	ISO 6383-1
Water Vapor Transmission Rate (23°C, 85% RH, 50 µm, cast film)	35	g/m²/24 hr	DIS 15106-1/-3
Oxygen Transmission Rate ²			DIS 15105-1/-2
0% RH : 23°C, 50.0 µm	26	cm³/m²/bar/24 hr	DIS 15105-1/-2
85% RH : 23°C, 50.0 µm	38	cm³/m²/bar/24 hr	DIS 15105-1/-2
Specific Heat Capacity			
--	1550	J/kg/°C	
Average: 20 to 150°C	2250	J/kg/°C	
Puncture Resistance (50.0 µm) ³	13.0	J/cm	Internal method
RSV - Formic Acid, 1g/100ml	3.20		Internal method

Thermal	Nominal Value	Unit	Test Method
CLTE - Flow	9.0E-5	cm/cm/°C	ISO 11359-2
Optical	Nominal Value	Unit	Test Method
Transmittance (50.0 µm, Cast Film)	83.0	%	Internal method
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity (260°C)	1120	Pa·s	Internal method
Additional Information	Nominal Value	Unit	Test Method

Processing parameters for cast film test specimen:

Extruder Temperature: 270°C

Die Temperature: 270°C

Chill Roll Temperature: 110°C

Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	4.0 - 8.0	hr
Rear Temperature	230 - 235	°C
Middle Temperature	235 - 250	°C
Front Temperature	240 - 260	°C
Nozzle Temperature	240 - 270	°C
Processing (Melt) Temp	240 - 275	°C
Mold Temperature	50.0 - 80.0	°C
Injection Rate	Moderate-Fast	
Back Pressure	3.00 - 10.0	MPa
Screw Compression Ratio	2.5:1.0	

NOTE

1. 50 mm/min
2. Cast Film
3. Cast Film

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

