

Akulon® F127

Polyamide 6
DSM Engineering Plastics

Message:

Akulon® F127 is a polyamide 6 (nylon 6) material. This product is available in Europe or Asia Pacific region. The processing method is: film extrusion.
Akulon® The main characteristics of F127 are: medium viscosity.
Akulon® The typical application areas of F127 are: movies

General Information			
Features	Medium and low viscosity		
Uses	Films		
Forms	Particle		
Processing Method	Film extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.13	g/cm ³	ISO 1183
Viscosity Number	168	cm ³ /g	ISO 307
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction			ISO 8295
With itself-dynamic, cast film	1.2		ISO 8295
With itself-static, cast film	1.5		ISO 8295
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	
Tensile Modulus ¹ (50 µm, Cast Film)	460	MPa	Internal method
Tensile Stress - MD			ISO 527-3
Yield, 50 µm, cast film	32.0	MPa	ISO 527-3
50 µm, cast film	80.0	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/m ² /24 hr	DIS 15106-1/-3
Oxygen Transmission Rate ²			DIS 15105-1/-2
0% RH : 23°C, 50.0 µm	26	cm ³ /m ² /bar/24 hr	DIS 15105-1/-2
85% RH : 23°C, 50.0 µm	38	cm ³ /m ² /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	11.5	J/cm	Internal method
RSV ⁴	2.70		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)	410	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

NOTE

1. 50 mm/min
2. Cast Film
3. Cast Film
4. Formic Acid, 1g/100 ml

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