



Technical Datasheet: PA6 F136

Product Description:

Akulon F 136 is a nucleated, lubricated natural color polyamide 6 (nylon 6) material featuring very high viscosity.

Applications:

Film extrusion.

Typical data:

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE
Density	ISO 1183	g/cm ³	1.13
Viscosity Number	ISO 307	cm ³ /g	245
Coefficient of friction (Dynamic, Cast Film)	ISO 8295		1.0
Film thickness-tested		μm	50
Tensile modulus (50μm, Cast film)	Internal Method	MPa	450
Tensile stress-MD		Mpa	
Yield, 50μm, Cast film	ISO 527-3	Mpa	31.0
Break, 50μm, Cast film		Mpa	83.0
Tensile Elongation-MD (Break, 50μm, Cast film)	ISO 527-3	%	350
Trouser tear resistance-MD (50μm, Cast film)	ISO 6383-1	N/mm	32.0
Water vapor transmission rate 23°C, 85%RH, 50μm, Cast film	DIS 15106-1/-3	g/m ² /24hr	35
Oxygen transmission rata			
0%RH : 23 °C, 50.0μm	DIS 15105-1/-2	cm ³ /m ² /bar/24hr	27
85%RH : 23 °C, 50.0 μm		cm ³ /m ² /bar/24hr	39
CLTE-flow	ISO 11359-2	cm/cm/ °C	9.0E-5
Specific Heat Capacity			
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Average		J/kg/ °C	2250

Transmittance (50.0 μm , Cast Film)	Internal Method	%	83.0
Melt Viscosity (260 $^{\circ}\text{C}$)	Internal Method	Pa.s	2250
Puncture Resistance (50.0 μm)	Internal Method	J/cm	14.0
RSV-Formic Acid, 1g/100 ml Test Specimen Production (film): <ul style="list-style-type: none">• Extruder temperature: 270 $^{\circ}\text{C}$• Die temperature :270 $^{\circ}\text{C}$• Chill roll temperature: 110 $^{\circ}\text{C}$	Internal Method		3.60

* Typical values not to be construed as specifications.