

## Technical Datasheet PA6 F136

### 1) Product Description:

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

### 2) Applications:

Film extrusion

### 3) Typical data:

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE*
Density	ISO 1183	g/cm <sup>3</sup>	1.13
Viscosity Number	ISO 307	cm <sup>3</sup> /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 Yield, 50μm, Cast film Break, 50μm, Cast film	ISO 527-3	MPa MPa	31.0 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 rata 23°C, 85%RH, 50μm, Cast film	DIS 15106-1/-3	g/m <sup>2</sup> /24hr	35
Oxygen transmission rata 0%RH : 23 °C, 50.0μm 85%RH : 23 °C, 50.0 μm	DIS 15105-1/-2	cm <sup>3</sup> /m <sup>2</sup> /bar/24hr cm <sup>3</sup> /m <sup>2</sup> /bar/24hr	27 39
CLTE-flow	ISO 11359-2	cm/cm/ °C	9.0E-5
Specific Heat Capacity --- Average		J/kg/ °C J/kg/ °C	1550 2250
Transmittance (50.0 μm, Cast Film)	Internal Method	%	83.0
Melt Viscosity (260 °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): • Extruder temperature: 270 °C • Die temperature :270 °C • Chill roll temperature: 110 °C	Internal Method		3.60

\* Typical values not to be construed as specifications.