


Akulon® F136-C1

PA6

DSM Engineering Plastics

Product Texts

Very High Viscosity, Film Extrusion, Lubricated

ISO 1043 PA6

[Akulon website](#)
Thermal properties

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Melting temperature (10°C/min)	220	°C	ISO 11357-1/-3
Coeff. of linear therm. expansion, parallel	90	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	90	E-6/K	ISO 11359-1/-2

Other properties

Other properties	Value	Unit	Test Standard
ISO Data			
Water absorption	9.5	%	Sim. to ISO 62
Humidity absorption	2.5	%	Sim. to ISO 62
Density	1130	kg/m³	ISO 1183

Film Properties

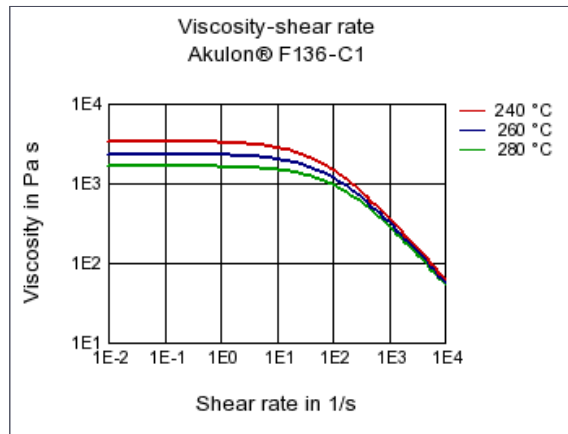
ISO Data	Value	Unit	Test Standard
Stress at yield, parallel	31	MPa	ISO 527-3
Maximum stress, parallel	83	MPa	ISO 527-3
Maximum strain, parallel	350	%	ISO 527-3
Trouser Tear resistance, parallel	32	N/mm	ISO 6383-1
Dynamic coefficient of friction	1	-	ISO 8295
WVTR, 23°C/85%r.h.	35	g/(m²*d)	DIS 15106-1/-2
Oxygen transmission rate, 23°C/0%r.h.	27	cm³/(m²*d*bar)	DIS 15105-1/-2
Oxygen transmission rate, 23°C/85%r.h.	39	cm³/(m²*d*bar)	DIS 15105-1/-2
Type of extrusion	cast	-	-
Thickness of specimen	0.05	mm	-

Material specific properties

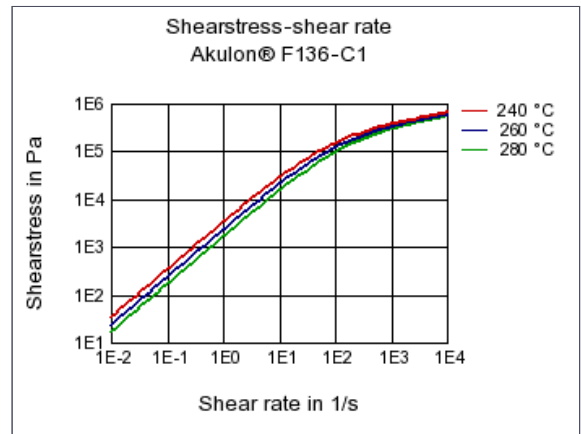
Material specific properties		Value	Unit	Test Standard
ISO Data				
Viscosity number		245	cm³/g	ISO 307, 1157, 1628

Diagrams

Viscosity-shear rate



Shearstress-shear rate



Characteristics

Processing

Film Extrusion, Other Extrusion

Additives

Lubricants

Delivery form

Pellets

Other text information

Injection Molding

[Injection Molding Recommendations](#)

Film extrusion

[Processing of Akulon film grades](#)