

TECHNICAL DATA SHEET

Akulon® F136-C1

Envalior
PA6

Processing

Film extrusion, Other extrusion

Delivery Form

Pellets

Additives

Lubricants

Certifications

Food contact

Product Text

Product Information

Very High Viscosity, Film Extrusion, Lubricated, Food Contact Quality

ISO 1043 PA6

Mechanical Properties	Value	Unit	Standard
Tensile modulus	2700	MPa	ISO 527
Yield stress	78	MPa	ISO 527
Yield strain	4	%	ISO 527
Poisson's ratio	0.35		ISO 527
Thermal Properties	Value	Unit	Standard
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	Value	Unit	Standard
Water absorption	9.5	%	Sim. to ISO 62
Humidity absorption	2.5	%	Sim. to ISO 62
Density	1130	kg/m ³	ISO 1183
Film Properties	Value	Unit	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

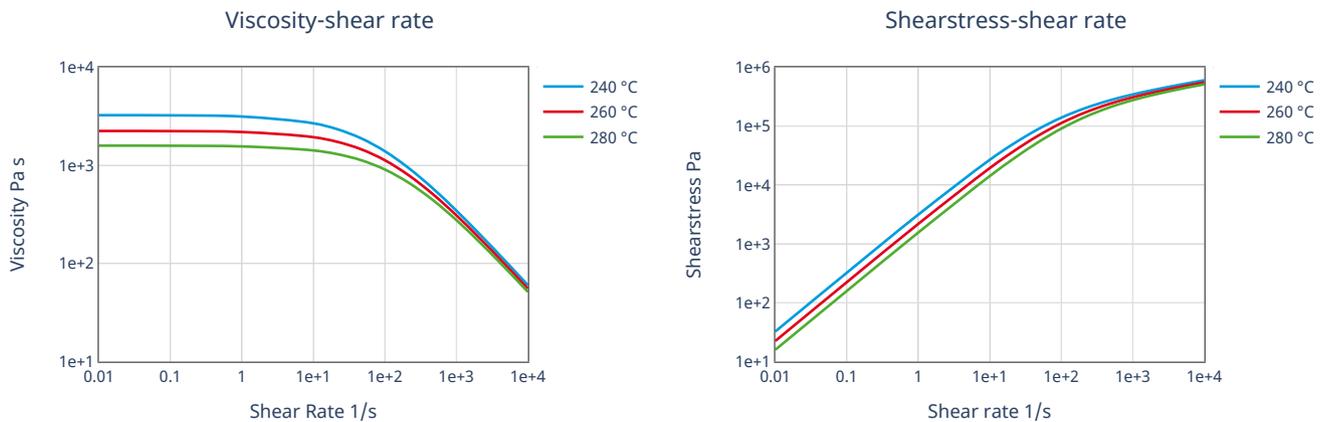
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Film Properties	Value	Unit	Standard
Trouser tear resistance, parallel	32	N/mm	ISO 6383-1
Dynamic coefficient of friction	1		ISO 8295
WVTR, 23°C/85%r.h.	35	g/(m ² *d)	ISO 15106-1/-2
Oxygen transmission rate, 23°C/0%r.h.	27	cm ³ /(m ² *d*bar)	ISO 15105-1/-2
Oxygen transmission rate, 23°C/85%r.h.	39	cm ³ /(m ² *d*bar)	ISO 15105-1/-2
Type of extrusion	cast		
Thickness of specimen	0.05	mm	

Material Specific Properties	Value	Unit	Standard
Viscosity number	245	cm ³ /g	ISO 307, 1157, 1628

Diagrams



Processing Information

Film extrusion

Processing of Akulon® Film Grades