

# Akulon<sup>®</sup> F136–E1

## PA6

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

Print Date: 2024–09–17

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<b>MATERIAL SPECIFIC PROPERTIES</b>			
	<b>VALUE</b>		
Viscosity number	245	cm <sup>3</sup> /g	ISO 307, 1157, 1628
RSV formic acid, 1g/100ml	3.6	–	Envalior Method
Melt Viscosity (260 °C)	2250	Pa s	Envalior Method, 260 °C
Density	1130	kg/m <sup>3</sup>	ISO 1183
<b>THERMAL PROPERTIES</b>			
	<b>VALUE</b>		
Coeff. of linear therm. expansion (parallel)	0.9	E–4/°C	ISO 11359–1/–2
Spec. heat capacity	1550	J/(kg K)	–
Average spec. heat capacity 20–150 °C	2250	J/(kg K)	
<b>MECHANICAL PROPERTIES (FILM)</b>			
	<b>VALUE</b>		
Modulus of elasticity	465	MPa	Envalior Method, 50 mm/min
Stress at yield, parallel	34	MPa	ISO 527–3
Maximum stress, parallel	94	MPa	ISO 527–3
Maximum strain, parallel	350	%	ISO 527–3
Trouser Tear resistance, parallel	32	–	ISO 6383–1
Puncture resistance	1320	J/m	Envalior Method
Static coefficient of friction	1.4	–	ISO 8295
Dynamic coefficient of friction	0.8	–	ISO 8295
<b>OTHER PROPERTIES (FILM)</b>			
	<b>VALUE</b>		

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## Property Data

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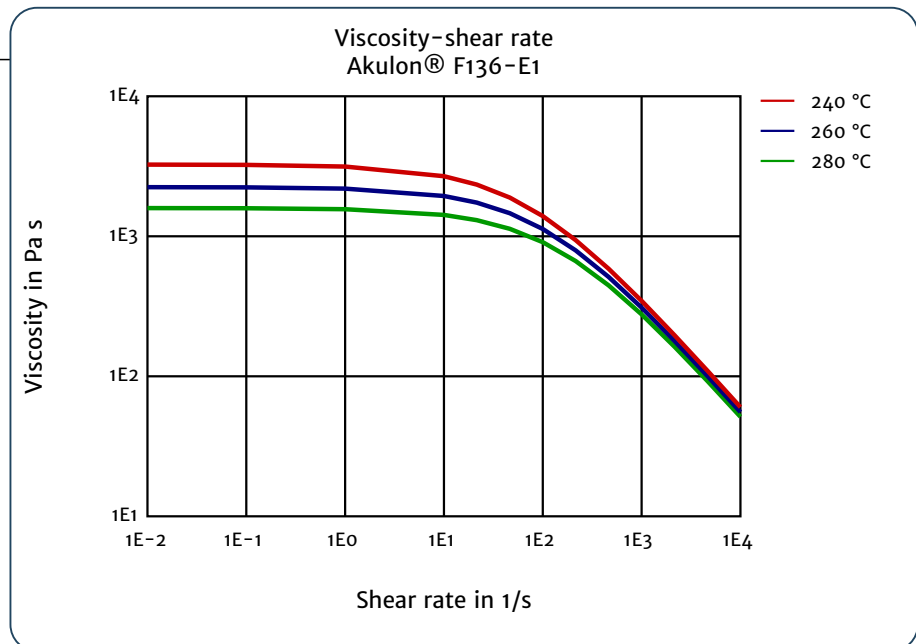
PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Transparency/Clarity	85	%	Envalior Method
Oxygen transmission rate at 23°C/0%r.h.	23	cm <sup>3</sup> /(m <sup>2</sup> *d*bar)	DIS 15105–1/–2
Oxygen transmission rate at 23°C/85%r.h.	33	cm <sup>3</sup> /(m <sup>2</sup> *d*bar)	DIS 15105–1/–2
Water Vapor Transmission Rate at 23°C/85%r.h.	35	g/(m <sup>2</sup> *d)	DIS 15106–1/–3

### TEST SPECIMEN PRODUCTION (FILM)

### VALUE

Type of extrusion	cast	–	–
Thickness of specimen	0.05	mm	–
Extruder temperature	270	°C	
Die temperature	270	°C	
Chill Roll Temperature	110	°C	

### Viscosity–shear rate



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