Property Data

Envalior
Imagine the Future

# Akulon® F136-C6

## PA6

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

Print Date: 2026-04-22

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|---|---|---|---|
| **MATERIAL SPECIFIC PROPERTIES** | VALUE | | |
| Viscosity number | 245 | cm³/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/m³ | ISO 1183 |
| **THERMAL PROPERTIES** | VALUE | | |
| 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) | |
| **MECHANICAL PROPERTIES (FILM)** | VALUE | | |
| Modulus of elasticity | 450 | MPa | Envalior Method, 50 mm/min |
| 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 | - | ISO 6383-1 |
| Puncture resistance | 1400 | J/m | Envalior Method |
| Static coefficient of friction | 1.2 | - | ISO 8295 |
| Dynamic coefficient of friction | 1 | - | ISO 8295 |
| **OTHER PROPERTIES (FILM)** | VALUE | | |

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*Property Data*

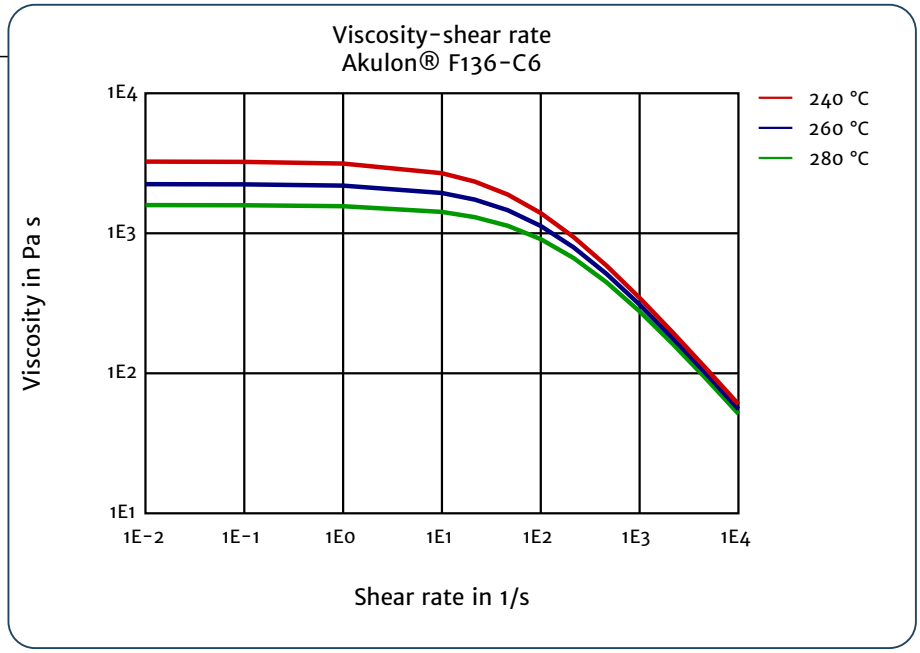
# *Akulon® F136-C6*

Print Date: 2026-04-22

| *PROPERTIES* | *TYPICAL DATA* | *UNIT* | *TEST METHOD* |
|---|---|---|---|
| Transparency/Clarity | 83 | % | Envalior Method |
| Oxygen transmission rate at 23°C/0%r.h. | 27 | cm³/(m²*d*bar) | DIS 15105-1/-2 |
| Oxygen transmission rate at 23°C/85%r.h. | 39 | cm³/(m²*d*bar) | DIS 15105-1/-2 |
| Water Vapor Transmission Rate at 23°C/85%r.h. | 35 | g/(m²*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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