

Akulon® F130-C1

PA6

Film Extrusion, Medium Viscosity, Lubricated

| Properties | Typical Data | Unit | Test Method |
|---|--------------|--|-----------------------|
| Material specific properties | | | |
| Viscosity number | 196 | cm ³ /g | ISO 307, 1157, 1628 |
| RSV formic acid, 1g/100ml | 3.03 | - | DSM method |
| Melt Viscosity (260 °C) | 810 | Pa s | DSM method, 260 °C |
| Density | 1130 | kg/m ³ | ISO 1183 |
| Thermal properties | | | |
| 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) | | | |
| Modulus of elasticity | 455 | MPa | DSM-Method, 50 mm/min |
| Stress at yield, parallel | 31 | MPa | ISO 527-3 |
| Maximum stress, parallel | 82 | MPa | ISO 527-3 |
| Maximum strain, parallel | 350 | % | ISO 527-3 |
| Trouser Tear resistance, parallel | 32 | - | ISO 6383-1 |
| Puncture resistance | 1300 | J/m | DSM-Method |
| Static coefficient of friction | 1.2 | - | ISO 8295 |
| Dynamic coefficient of friction | 1 | - | ISO 8295 |
| Other Properties (Film) | | | |
| Transparency/Clarity | 83 | % | DSM method |
| Oxygen transmission rate at 23°C/0%r.h. | 26 | cm ³ /(m ² *d*bar) | DIS 15105-1/-2 |
| Oxygen transmission rate at 23°C/85%r.h. | 38 | cm ³ /(m ² *d*bar) | DIS 15105-1/-2 |
| Water Vapor Transmission Rate at 23°C/85%r.h. | 35 | g/(m ² *d) | DIS 15106-1/-3 |
| Test specimen production (Film) | | | |
| Type of extrusion | cast | - | - |
| Thickness of specimen | 0.05 | mm | - |
| Extruder temperature | 270 | °C | - |

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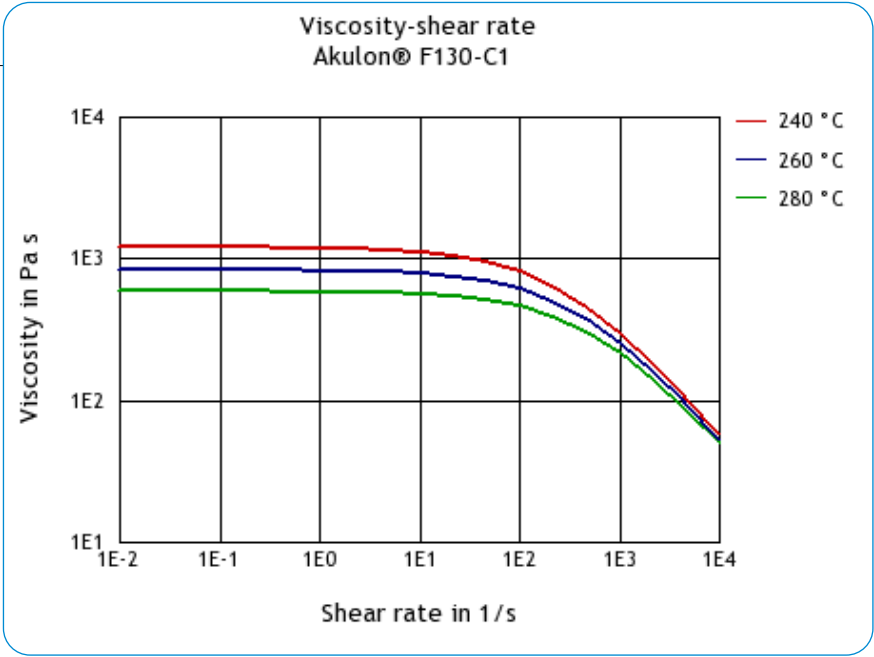


Property Data

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| Properties | Typical Data | Unit | Test Method |
|------------------------|--------------|------|-------------|
| Die temperature | 270 | °C | |
| Chill Roll Temperature | 110 | °C | |

Viscosity-shear rate



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