# Akulon® F128

Polyamide 6

DSM Engineering Plastics

## Message:

Akulon®F128 is a polyamide 6 (nylon 6) material. This product is available in the Asia-Pacific region, and the processing method is: film extrusion.
Akulon®The main characteristics of F128 are: medium viscosity.
Akulon®The typical application areas of F128 are: movies

| General Information | | | |
|---|---|---|---|
| Features | Medium viscosity | | |
| Uses | Films | | |
| Processing Method | Film extrusion | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Density | 1.13 | g/cm³ | ISO 1183 |
| Viscosity Number | 181 | cm³/g | ISO 307 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Coefficient of Friction | | | ISO 8295 |
| Dynamic, cast film | 1.2 | | ISO 8295 |
| Static, cast film | 1.5 | | ISO 8295 |
| **Films** | **Nominal Value** | **Unit** | **Test Method** |
| Film Thickness - Tested | 50 | µm | |
| Tensile Modulus [1] (50 µm, Cast Film) | 460 | MPa | Internal method |
| Tensile Stress - MD | | | ISO 527-3 |
| Yield, 50 µm, cast film | 32.0 | MPa | ISO 527-3 |
| 50 µm, cast film | 80.0 | MPa | ISO 527-3 |
| Tensile Elongation - MD (Broken, 50 µm, cast film) | 350 | % | ISO 527-3 |
| Trouser Tear Resistance - MD (50 µm, Cast Film) | 32.0 | N/mm | ISO 6383-1 |
| Water Vapor Transmission Rate (23°C, 85% RH, 50 µm, cast film) | 35 | g/m²/24 hr | DIS 15106-1/-3 |
| Oxygen Transmission Rate [2] | | | DIS 15105-1/-2 |
| 0% RH : 23°C, 50.0 µm | 26 | cm³/m²/bar/24 hr | DIS 15105-1/-2 |
| 85% RH : 23°C, 50.0 µm | 38 | cm³/m²/bar/24 hr | DIS 15105-1/-2 |
| Specific Heat Capacity | | | |
| -- | 1550 | J/kg/°C | |
| Average: 20 to 150°C | 2250 | J/kg/°C | |
| Puncture Resistance (50.0 µm) [3] | 11.5 | J/cm | Internal method |
| RSV [4] | 2.85 | | Internal method |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| CLTE - Flow | 9.0E-5 | cm/cm/°C | ISO 11359-2 |
| **Optical** | **Nominal Value** | **Unit** | **Test Method** |

| | | | |
|---|---|---|---|
| Transmittance (50.0 µm, Cast Film) | 83.0 | % | Internal method |
| Fill Analysis | Nominal Value | Unit | Test Method |
| Melt Viscosity (260°C) | 560 | Pa·s | Internal method |
| Additional Information | Nominal Value | Unit | Test Method |
| Test Specimen Production (Film):<br>Extruder Temperature: 270°C<br>Die Temperature: 270°C<br>Chill Roll Temperature: 110°C | | | |
| NOTE | | | |
| 1. | 50 mm/min | | |
| 2. | Cast Film | | |
| 3. | Cast Film | | |
| 4. | Formic Acid, 1g/100 ml | | |



## Recommended distributors for this material

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