


Akulon® F136-DH

PA6

DSM Engineering Plastics

Product Texts

High Viscosity, Nucleated, Heat Stabilized, Tube Extrusion

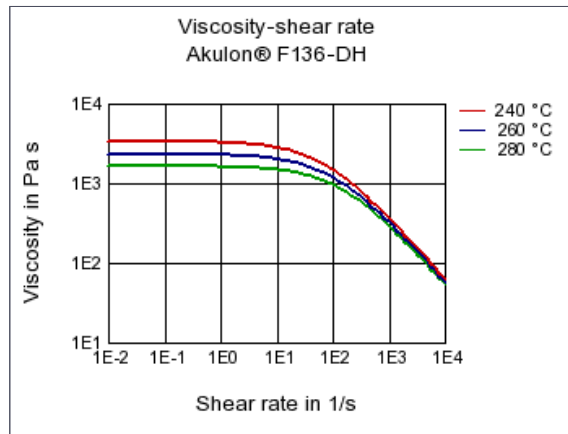
ISO 1043 PA6

[Akulon website](#)

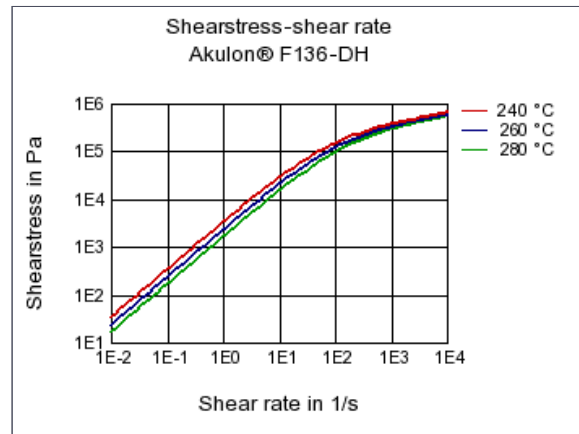
Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3150	MPa	ISO 527-1/-2
Yield stress	85	MPa	ISO 527-1/-2
Yield strain	4	%	ISO 527-1/-2
Nominal strain at break	45	%	ISO 527-1/-2
Charpy impact strength (+23°C)	N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	5.5	kJ/m ²	ISO 179/1eA
Thermal properties			
ISO Data			
Melting temperature (10°C/min)	220	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	60	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	170	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	100	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.6	mm	IEC 60695-11-10
Electrical properties			
ISO Data			
Relative permittivity, 100Hz	3.4	-	IEC 60250
Relative permittivity, 1MHz	3.1	-	IEC 60250
Dissipation factor, 100Hz	65	E-4	IEC 60250
Dissipation factor, 1MHz	165	E-4	IEC 60250
Volume resistivity	>1E13	Ohm*m	IEC 60093
Electric strength	25	kV/mm	IEC 60243-1
Comparative tracking index	600	-	IEC 60112
Other properties			
ISO Data			
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			
ISO Data			
Dynamic coefficient of friction	0.8	-	ISO 8295
Material specific properties			
ISO Data			
Viscosity number	245	cm ³ /g	ISO 307, 1157, 1628

Diagrams

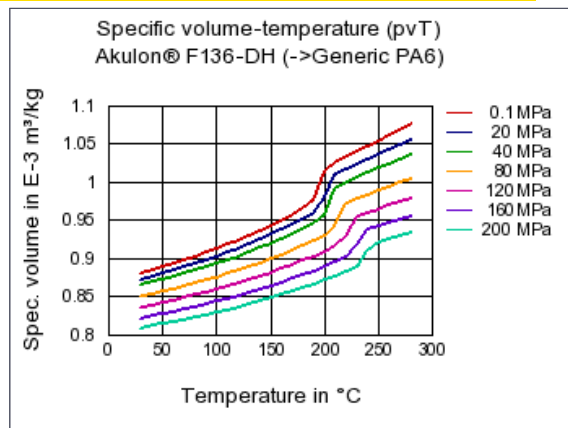
Viscosity-shear rate



Shearstress-shear rate



Specific volume-temperature (pvT)



Characteristics

Processing

Profile Extrusion, Sheet Extrusion, Other Extrusion

Additives

Lubricants, Release agent

Delivery form

Pellets

Special Characteristics

Heat stabilized or stable to heat

Other text information

Injection Molding

[Injection Molding Recommendations](#)

Film extrusion

[Processing of Akulon film grades](#)