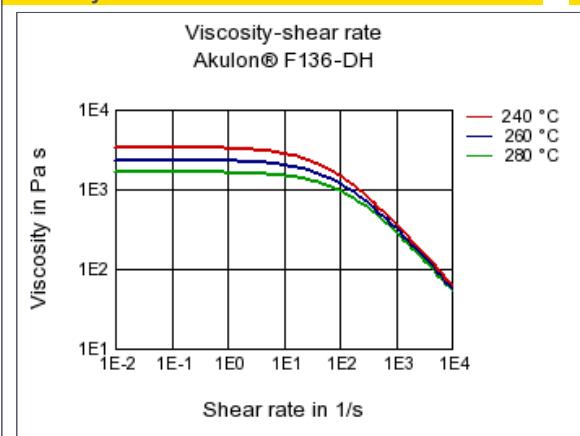




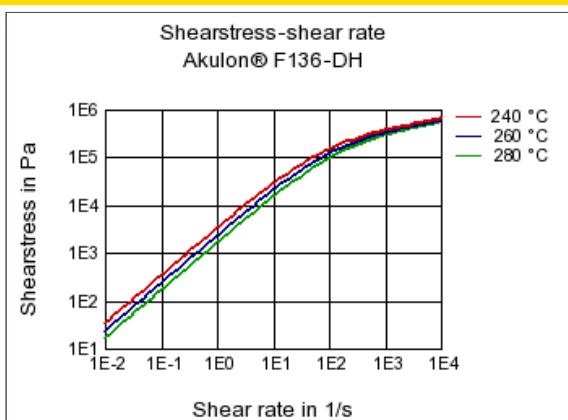
Akulon® F136-DH PA6				DSM Engineering Plastics
Product Texts				
High Viscosity, Nucleated, Heat Stabilized, Tube Extrusion				
ISO 1043 PA6				
<a href="#">Akulon website</a>		Value	Unit	Test Standard
Mechanical properties	Value	Unit	Test Standard	
ISO Data				
Tensile Modulus	3150	MPa	ISO 527-1/-2	
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 <sup>2</sup>	ISO 179/1eU	
Charpy notched impact strength (+23°C)	5.5	kJ/m <sup>2</sup>	ISO 179/1eA	
Thermal properties	Value	Unit	Test Standard	
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	Value	Unit	Test Standard	
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	Value	Unit	Test Standard	
ISO Data				
Water absorption	9.5	%	Sim. to ISO 62	
Humidity absorption	2.5	%	Sim. to ISO 62	
Density	1130	kg/m <sup>3</sup>	ISO 1183	
Film Properties	Value	Unit	Test Standard	
ISO Data				
Dynamic coefficient of friction	0.8	-	ISO 8295	
Material specific properties	Value	Unit	Test Standard	
ISO Data				
Viscosity number	245	cm <sup>3</sup> /g	ISO 307, 1157, 1628	

## Diagrams

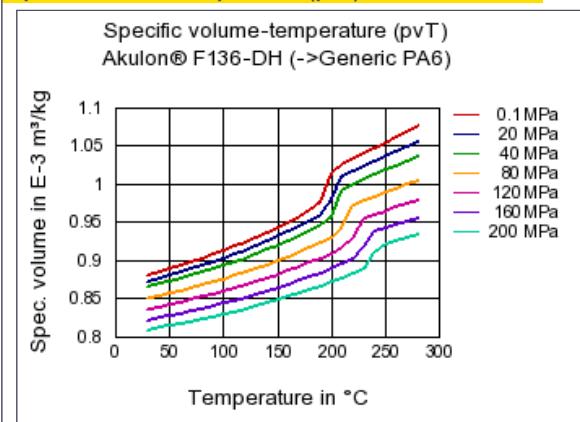
## Viscosity-shear rate



## 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](#)