


Akulon® F150-CZ

PA6

DSM Engineering Plastics

Product Texts

Very High Viscosity, Lubricated

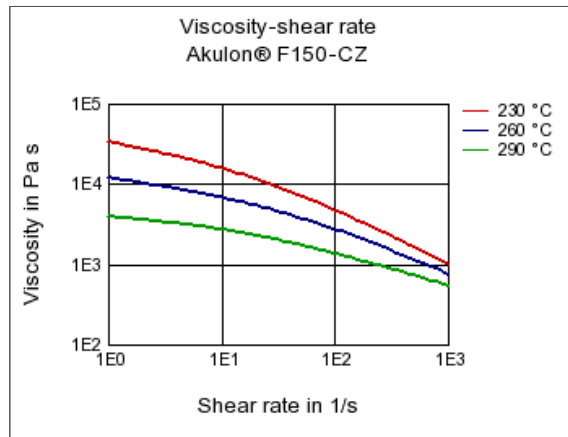
ISO 1043 PA6

[Akulon website](#)

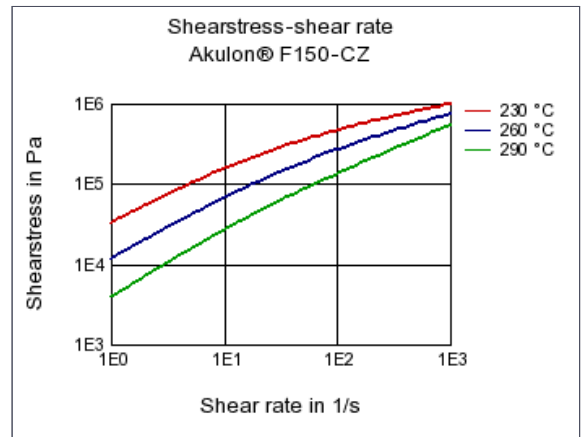
Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	3200 / -	MPa	ISO 527-1/-2
Yield stress	85 / -	MPa	ISO 527-1/-2
Yield strain	4 / -	%	ISO 527-1/-2
Nominal strain at break	>50 / -	%	ISO 527-1/-2
Thermal properties			
ISO Data			
Melting temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Coeff. of linear therm. expansion, parallel	100 / *	E-6/K	ISO 11359-1/-2
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
Surface resistivity	* / 1E15	Ohm	IEC 60093
Electric strength	25 / -	kV/mm	IEC 60243-1
Other properties			
ISO Data			
Water absorption	9.5 / *	%	Sim. to ISO 62
Humidity absorption	2.5 / *	%	Sim. to ISO 62
Density	1130 / -	kg/m³	ISO 1183
Material specific properties			
ISO Data			
Viscosity number	370 / *	cm³/g	ISO 307, 1157, 1628
Rheological calculation properties			
ISO Data			
Ejection temperature	185	°C	-
Test specimen production			
ISO Data			
Processing conditions acc. ISO	1870	-	ISO-2
Injection Molding, melt temperature	275	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 10724
Injection Molding, injection velocity	200	mm/s	ISO 294

Diagrams

Viscosity-shear rate



Shearstress-shear rate



Characteristics

Processing

Profile Extrusion, Sheet Extrusion, Other Extrusion

Additives

Lubricants

Delivery form

Pellets