Akulon®

Akulon® F136-C CRC-MB

PA6

Film Extrusion, Very High Viscosity, Lubricated, Food Contact Quality

Sustainability

Chemical recycled based - mass balanced

Properties	Typical Data	Unit	Test Method
Material specific properties	dry / cond		
Viscosity number	245 / *	cm^3/g	ISO 307, 1157, 1628
RSV formic acid, 1g/100ml	3.6	-	DSM method
Melt Viscosity (260 °C)	2250	Pa s	DSM method, 260 °C
Density	1130 / -	kg/m^3	ISO 1183
Thermal properties	dry / cond		
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)	dry / cond		
Modulus of elasticity	450 / -	MPa	DSM-Method, 50 mm/min
Stress at yield, parallel	31	MPa	ISO 527-3
Maximum stress, parallel	83	MPa	ISO 527-3
Maximum strain, parallel	350	%	ISO 527-3
Trouser Tear resistance, parallel	32	-	ISO 6383-1
Puncture resistance	1400 / -	J/m	DSM-Method
Static coefficient of friction	1.2 / -	-	ISO 8295
Dynamic coefficient of friction	1	-	ISO 8295

DSM
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Property Data

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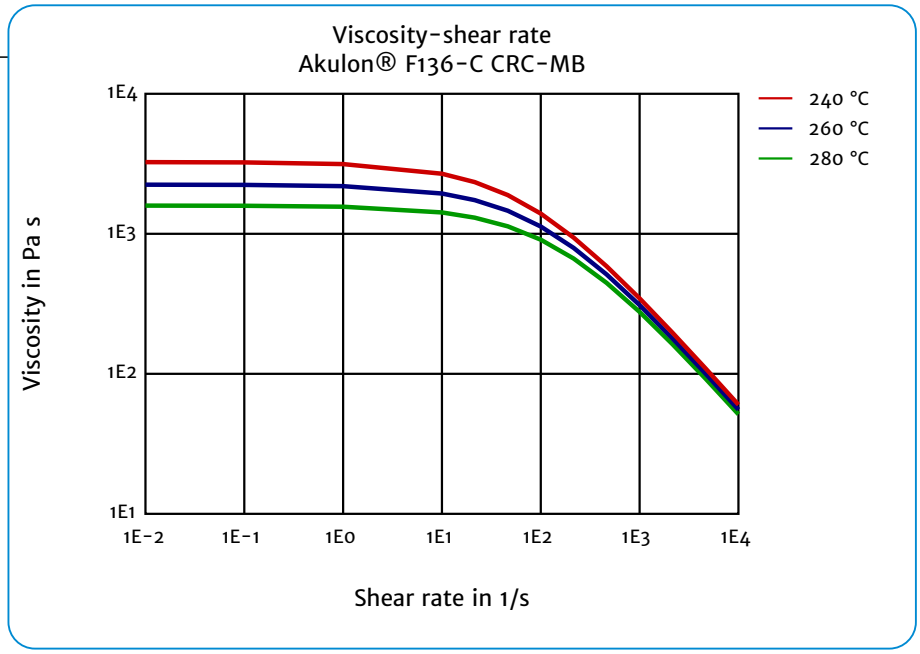
Properties	Typical Data	Unit	Test Method
Other Properties (Film)	**Value**		
Transparency/Clarity	83	%	DSM method
Oxygen transmission rate at 23°C/0%r.h.	27	$cm^3/(m^2*d*bar)$	DIS 15105-1/-2
Oxygen transmission rate at 23°C/85%r.h.	39	$cm^3/(m^2*d*bar)$	DIS 15105-1/-2
Water Vapor Transmission Rate at 23°C/85%r.h.	35	$g/(m^2*d)$	DIS 15106-1/-3
Test specimen production (Film)	**Value**		
Type of extrusion	cast	-	-
Thickness of specimen	0.05	mm	-
Extruder temperature	270	°C	
Die temperature	270	°C	
Chill Roll Temperature	110	°C	

Viscosity-shear rate



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