

# Akulon<sup>®</sup> XS32-C1 (FC-X9207)

## PA6 copolymer

High Viscosity, Lubricated, Film Extrusion, Food Contact Quality

Print Date: 2024-03-27

PA with lower crystallization speed compared to PA6

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>MATERIAL SPECIFIC PROPERTIES</b>			
	VALUE		
Viscosity number	210	cm <sup>3</sup> /g	ISO 307, 1157, 1628
RSV formic acid, 1g/100ml	3.2	–	Envalior Method
Melt Viscosity (260 °C)	1120	Pa s	Envalior Method, 260 °C
Density	1130	kg/m <sup>3</sup>	ISO 1183
<b>THERMAL PROPERTIES</b>			
	VALUE		
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)	–
<b>MECHANICAL PROPERTIES (FILM)</b>			
	VALUE		
Modulus of elasticity	450	MPa	Envalior Method, 50 mm/min
Stress at yield, parallel	32	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	1300	J/m	Envalior Method
Static coefficient of friction	1.2	–	ISO 8295
Dynamic coefficient of friction	1	–	ISO 8295

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## Property Data

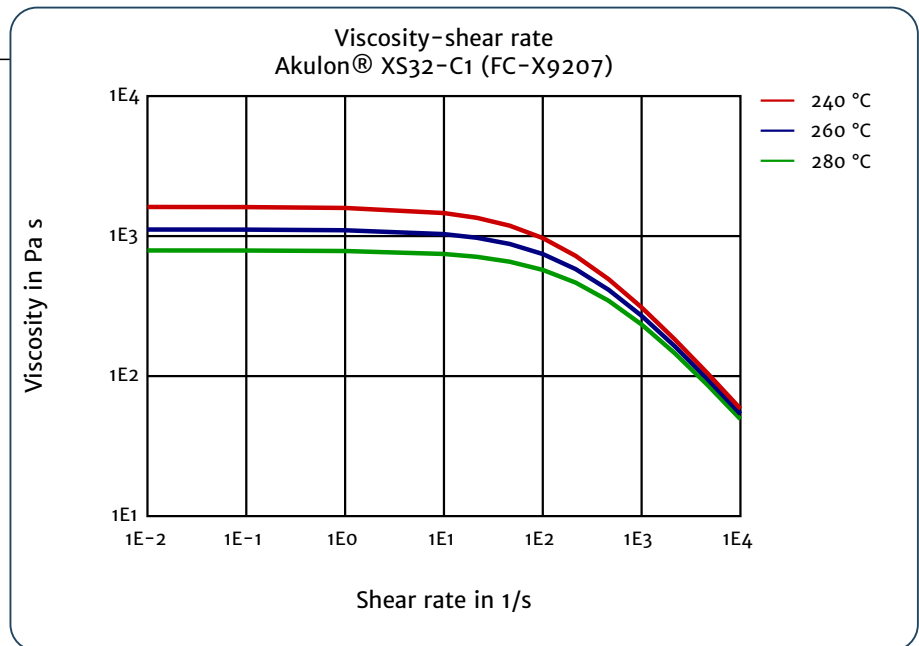
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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>OTHER PROPERTIES (FILM)</b>			
Transparency/Clarity	83	%	Envalior Method
Oxygen transmission rate at 23°C/0%r.h.	26	cm <sup>3</sup> /(m <sup>2</sup> *d*bar)	DIS 15105-1/-2
Oxygen transmission rate at 23°C/85%r.h.	38	cm <sup>3</sup> /(m <sup>2</sup> *d*bar)	DIS 15105-1/-2
Water Vapor Transmission Rate at 23°C/85%r.h.	35	g/(m <sup>2</sup> *d)	DIS 15106-1/-3

<b>TEST SPECIMEN PRODUCTION (FILM)</b>			
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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