

# Akulon<sup>®</sup> F130

## PA6

Film Extrusion, Medium Viscosity, Food Contact Quality

Print Date: 2024-09-17

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>MATERIAL SPECIFIC PROPERTIES</b>			
	VALUE		
Viscosity number	196	cm <sup>3</sup> /g	ISO 307, 1157, 1628
RSV formic acid, 1g/100ml	3.03	–	Envalior Method
Melt Viscosity (260 °C)	810	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	455	MPa	Envalior Method, 50 mm/min
Stress at yield, parallel	31	MPa	ISO 527-3
Maximum stress, parallel	82	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	1.5	–	ISO 8295
Dynamic coefficient of friction	1	–	ISO 8295
<b>OTHER PROPERTIES (FILM)</b>			
	VALUE		

All the trademarks mentioned here are trademarks of Envalior.

Seller represents and warrants exclusively that on the date of delivery by Seller the product shall be in conformity with the specifications agreed upon. Seller makes no other representations or warranties, whether express or implied.

Seller is not responsible or liable for the design of the products of the Customer and it is the responsibility of the Customer to determine that the Seller's product is safe, complies with application laws and regulations, and is technically or otherwise fit for its intended use. Seller does not endorse or claim suitability of its products for a specific application and disclaims each and every representation or warranty, whether express or implied, in that respect.

Typical values are indicative only and are not to be construed as being binding specifications. Colorants in the product or other additives may cause significant variations in typical values.

Copyright © Envalior 2024. All rights reserved. No part of the information may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of Envalior.

## Property Data

# Akulon<sup>®</sup> F130

Print Date: 2024-09-17

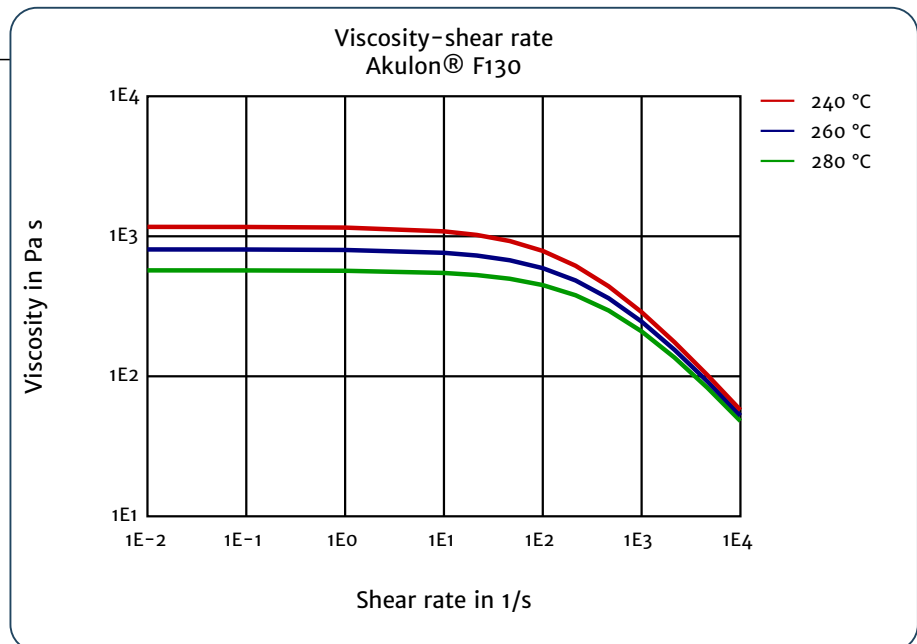
PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Transparency/Clarity	83	%	Envalior Method
Oxygen transmission rate at 23°C/0%r.h.	26	cm <sup>3</sup> /(m <sup>2</sup> *d*bar)	DIS 15105-1/-2
Oxygen transmission rate at 23°C/85%r.h.	39	cm <sup>3</sup> /(m <sup>2</sup> *d*bar)	DIS 15105-1/-2
Water Vapor Transmission Rate at 23°C/85%r.h.	35	g/(m <sup>2</sup> *d)	DIS 15106-1/-3

### 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



All the trademarks mentioned here are trademarks of Envalior.

Seller represents and warrants exclusively that on the date of delivery by Seller the product shall be in conformity with the specifications agreed upon. Seller makes no other representations or warranties, whether express or implied.

Seller is not responsible or liable for the design of the products of the Customer and it is the responsibility of the Customer to determine that the Seller's product is safe, complies with application laws and regulations, and is technically or otherwise fit for its intended use. Seller does not endorse or claim suitability of its products for a specific application and disclaims each and every representation or warranty, whether express or implied, in that respect.

Typical values are indicative only and are not to be construed as being binding specifications. Colorants in the product or other additives may cause significant variations in typical values.

Copyright © Envalior 2024. All rights reserved. No part of the information may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of Envalior.