

TECHNICAL DATA SHEET

Akulon® F150-CZ

Envalior
PA6

Processing

Profile extrusion, Sheet extrusion, Other extrusion

Delivery Form

Pellets

Additives

Lubricants

Certifications

Food contact

Product Text

Product Information

Very High Viscosity, Food Contact Quality, Lubricated

ISO 1043 PA6

Processing/Physical Characteristics	Value	Unit	Standard
Ejection temperature	185	°C	
Mechanical Properties	Value	Unit	Standard
Tensile modulus	3200	MPa	ISO 527
Yield stress	85	MPa	ISO 527
Yield strain	4	%	ISO 527
Nominal strain at break	>50	%	ISO 527
Poisson's ratio	0.35		ISO 527
Thermal Properties	Value	Unit	Standard
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
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	
Yellow card available	yes		
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	3	mm	
Yellow card available	yes		

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Electrical Properties	Value	Unit	Standard
Relative permittivity, 100Hz	3.4		IEC 62631-2-1
Relative permittivity, 1MHz	3.1		IEC 62631-2-1
Dissipation factor, 100Hz	65	E-4	IEC 62631-2-1
Dissipation factor, 1MHz	165	E-4	IEC 62631-2-1
Volume resistivity	1E13	Ohm*m	IEC 62631-3-1
Surface resistivity	1E15	Ohm	IEC 62631-3-2
Electric strength	25	kV/mm	IEC 60243-1
Other Properties	Value	Unit	Standard
Water absorption	9.5	%	Sim. to ISO 62
Humidity absorption	2.5	%	Sim. to ISO 62
Density	1130	kg/m ³	ISO 1183
Material Specific Properties	Value	Unit	Standard
Viscosity number	370	cm ³ /g	ISO 307, 1157, 1628
Test Specimen Production	Value	Unit	Standard
Processing conditions acc. ISO	1874		ISO-2
Injection molding, melt temperature	275	°C	ISO 294
Injection molding, mold temperature	80	°C	ISO 294
Injection molding, injection velocity	200	mm/s	ISO 294

Diagrams

