

# Akulon<sup>®</sup> F150-CZ

## PA6

Very High Viscosity, Food Contact Quality, Lubricated

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<b>MECHANICAL PROPERTIES</b>			
	<i>DRY / COND</i>		
Tensile modulus	3200 / –	MPa	ISO 527-1/-2
Nominal strain at break	>50 / –	%	ISO 527-1/-2
Yield stress	85 / –	MPa	ISO 527-1/-2
Yield strain	4 / –	%	ISO 527-1/-2
<b>THERMAL PROPERTIES</b>			
	<i>DRY / COND</i>		
Melting temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Coeff. of linear therm. expansion (parallel)	1 / *	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	IEC 60695-11-10
Burning Behav. at 3.0 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	3 / *	mm	IEC 60695-11-10
<b>ELECTRICAL PROPERTIES</b>			
	<i>DRY / COND</i>		
Relative permittivity (100Hz)	3.4 / –	–	IEC 62631-2-1
Relative permittivity (1 MHz)	3.1 / –	–	IEC 62631-2-1
Dissipation factor (100 Hz)	65 / –	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	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
<b>OTHER PROPERTIES</b>			
	<i>DRY / COND</i>		

## Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Water absorption	9.5 / *	%	Sim. to ISO 62
Humidity absorption	2.5 / *	%	Sim. to ISO 62
Density	1130 / –	kg/m <sup>3</sup>	ISO 1183
<b><i>MATERIAL SPECIFIC PROPERTIES</i></b>		<b><i>DRY / COND</i></b>	
Viscosity number	370 / *	cm <sup>3</sup> /g	ISO 307, 1157, 1628