

Akulon[®] S240-CH

PA66

High Viscosity, Heat Stabilized

Print Date: 2025-10-04

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	2.2 / *	%	ISO 294-4
Molding shrinkage (normal)	2.1 / *	%	ISO 294-4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	3000 / 1500	MPa	ISO 527-1/-2
Nominal strain at break	30 / >50	%	ISO 527-1/-2
Yield stress	80 / 60	MPa	ISO 527-1/-2
Yield strain	4 / -	%	ISO 527-1/-2
Flexural modulus	2950 / -	MPa	ISO 178
Flexural strength	120 / -	MPa	ISO 178
Charpy impact strength (+23°C)	N / N	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	N / N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	5 / -	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
	DRY / COND		
Melting temperature (10°C/min)	260 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	70 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	215 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.9 / *	E-4/°C	ISO 11359-1/-2
Burning Behav. at 3.0 mm nom. thickn.	V-2 / *	class	IEC 60695-11-10
Thickness tested	3 / *	mm	IEC 60695-11-10

ELECTRICAL PROPERTIES

DRY / COND

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Relative permittivity (100Hz)	3.6 / –	–	IEC 62631-2-1
Relative permittivity (1 MHz)	3.3 / –	–	IEC 62631-2-1
Dissipation factor (100 Hz)	90 / –	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	220 / –	E-4	IEC 62631-2-1
Volume resistivity	1E13 / –	Ohm*m	IEC 62631-3-1
Electric strength	25 / –	kV/mm	IEC 60243-1
OTHER PROPERTIES	DRY / COND		
Water absorption	9 / *	%	Sim. to ISO 62
Humidity absorption	2.5 / *	%	Sim. to ISO 62
Density	1140 / –	kg/m³	ISO 1183
MATERIAL SPECIFIC PROPERTIES	DRY / COND		
Viscosity number	280 / *	cm³/g	ISO 307, 1157, 1628

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