

Akulon[®] IG–HG7

(PA46+PA6)–GF35

35% Glass Reinforced, Heat Stabilized

Print Date: 2024–06–13

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage [parallel]	0.4 / *	%	Sim. to ISO 294–4
Molding shrinkage [normal]	1.1 / *	%	Sim. to ISO 294–4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	12000 / 6500	MPa	ISO 527–1/–2
Tensile modulus (120°C)	5200 / –	MPa	ISO 527–1/–2
Tensile modulus (180°C)	4500	MPa	ISO 527–1/–2
Tensile modulus (200°C)	3800	MPa	ISO 527–1/–2
Stress at break	210 / 130	MPa	ISO 527–1/–2
Stress at break (120°C)	100 / –	MPa	ISO 527–1/–2
Stress at break (180°C)	85	MPa	ISO 527–1/–2
Stress at break (200°C)	60	MPa	ISO 527–1/–2
Strain at break	3.2 / 8	%	ISO 527–1/–2
Strain at break (120°C)	8.5 / –	%	ISO 527–1/–2
Strain at break (180°C)	9	%	ISO 527–1/–2
Strain at break (200°C)	9	%	ISO 527–1/–2
Flexural modulus	11300 / 6000	MPa	ISO 178
Flexural strength	320 / 180	MPa	ISO 178
Charpy impact strength (+23°C)	80 / –	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	13 / –	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
	DRY / COND		
Melting temperature (10°C/min)	280 / *	°C	ISO 11357–1/–3

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Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Temp. of deflection under load (1.80 MPa)	255 / *	°C	ISO 75–1/–2
<i>OTHER PROPERTIES</i>		<i>DRY / COND</i>	
Humidity absorption	2.1 / *	%	Sim. to ISO 62
Density	1440 / –	kg/m ³	ISO 1183

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