

Akulon[®] IG–UH

(PA46+PA6)

Heat Stabilized, Lubricated

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage [parallel]	1.6 / *	%	Sim. to ISO 294–4
Molding shrinkage [normal]	1.6 / *	%	Sim. to ISO 294–4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	3100 / 700	MPa	ISO 527–1/–2
Tensile modulus (120°C)	550 / –	MPa	ISO 527–1/–2
Tensile modulus (160°C)	450	MPa	ISO 527–1/–2
Tensile modulus (180°C)	400	MPa	ISO 527–1/–2
Tensile modulus (200°C)	350	MPa	ISO 527–1/–2
Yield stress	90 / 45	MPa	ISO 527–1/–2
Yield stress (120°C)	35	MPa	ISO 527–1/–2
Yield stress (160°C)	25	MPa	ISO 527–1/–2
Yield stress (180°C)	25	MPa	ISO 527–1/–2
Yield stress (200°C)	20	MPa	ISO 527–1/–2
Nominal strain at break	25 / –	%	ISO 527–1/–2
Nominal strain at break (120°C)	>50	%	ISO 527–1/–2
Nominal strain at break (160°C)	>50	%	ISO 527–1/–2
Nominal strain at break (180°C)	>50	%	ISO 527–1/–2
Nominal strain at break (200°C)	>50	%	ISO 527–1/–2
Flexural modulus	2900 / 650	MPa	ISO 178
Flexural strength	100 / 20	MPa	ISO 178
Charpy impact strength (+23°C)	N / N	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	9 / –	kJ/m²	ISO 179/1eA

Property Data

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Charpy notched impact strength (–30°C)	5 / 3	kJ/m²	ISO 179/1eA
THERMAL PROPERTIES		DRY / COND	
Melting temperature (10°C/min)	290 / *	°C	ISO 11357–1/–3
OTHER PROPERTIES		DRY / COND	
Density	1160 / –	kg/m³	ISO 1183