

**AKROLOY® PA ICF 40 black (5270)**

(PA66+PA6I/6T)-CF40

Akro-Plastic GmbH

<b>Processing/Physical Characteristics</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melt volume-flow rate, MVR	15 / *	cm <sup>3</sup> /10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-
Molding shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.4 / *	%	ISO 294-4, 2577

<b>Mechanical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Modulus	35000 / 32000	MPa	ISO 527
Stress at break	255 / 230	MPa	ISO 527
Strain at break	1.5 / 1.5	%	ISO 527
Flexural modulus, 23°C	35000 / 33000	MPa	ISO 178
Flexural strength	400 / 360	MPa	ISO 178
Charpy impact strength, +23°C	50 / 50	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	50 / -	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	8 / 8	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	7 / -	kJ/m <sup>2</sup>	ISO 179/1eA

<b>Thermal properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melting temperature, 10°C/min	255 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	235 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	40 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	70 / *	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	-

<b>Electrical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Surface resistivity	* / 10000	Ohm	IEC 62631-3-2

<b>Other properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
Density	1350 / -	kg/m <sup>3</sup>	ISO 1183

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Melt temperature	320	°C	-
Mold temperature	100	°C	-
Injection pressure	75	MPa	-

**Characteristics****Processing**

Injection Molding

**Features**

Tribologic Grade

**Delivery form**

Black

**Regional Availability**

Europe, Asia Pacific