

Product Texts

ISO 16396 - PA12, CF15, M1GHL, C16-080

Rilsamid® ASR 13 resin is a carbon fiber reinforced polyamide.

This black colored grade is designed for injection moulding.

Packaging :

This grade is delivered dried in sealed packaging (25 kg bags / 450 kg rigid containers) ready to be processed

Shelf life :

Two years from the delivery.

For any use above this limit please refer to our technical services.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	10 / *	cm ³ /10min	ISO 1133
Temperature	235 / *	°C	-
Load	5 / *	kg	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	9600 / 9000	MPa	ISO 527
^[C] Stress at break	127 / 115	MPa	ISO 527
^[C] Strain at break	3.3 / 4	%	ISO 527
^[C] Charpy impact strength, +23°C	45 / 46	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	47 / 48	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	11 / 11	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	8 / 7	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	178 / *	°C	ISO 11357-1/-3

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Surface resistivity	* / 100000	Ohm	IEC 62631-3-2

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	1.5 / *	%	Sim. to ISO 62
^[C] Humidity absorption	0.6 / *	%	Sim. to ISO 62
^[C] Density	1080 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Delivery form

Pellets

Special Characteristics

Increased electrical conductivity, Anti-static, Light stabilized or stable to light, U.V. stabilized or stable to weather, Heat stabilized or stable to heat

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Other text information**Injection molding****Processing conditions:**

- Typical melt temperature (Min / Recommended / Max) : 240°C / 260°C / 280°C.
- Typical mold temperature : 40 – 90°C.
- Drying time and temperature (only necessary for bags opened for more than two hours) : 4-8 hours at 80-90°C.