

RILSAMID®

ASR 13

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.

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	10 / *	cm³/10min	ISO 1133
Temperature	235 / *	°C	-
	455 / *	°F	
Load	5 / *	kg	-
	11 / *	lb	
Melt Flow Rate	≥10	g/10min	ASTM D1238
MECHANICAL PROPERTIES			
Tensile Modulus	9600 / 9000	MPa	ISO 527-1/-2
	1.39E6 / 1.31E6	psi	
Stress at Break	127 / 115	MPa	ISO 527-1/-2
	18400 / 16700	psi	
Strain at Break	- / 4	%	ISO 527-1/-2
Charpy Impact Strength, +23°C	45 / 46	kJ/m²	ISO 179/1eU
	21.4 / 21.9	ftlb/in²	
Charpy Impact Strength, -30°C	47 / 48	kJ/m²	ISO 179/1eU
	22.4 / 22.8	ftlb/in²	
Charpy Notched Impact Strength, +23°C	11 / 11	kJ/m²	ISO 179/1eA
	5.23 / 5.23	ftlb/in²	
Charpy Notched Impact Strength, -30°C	8 / 7	kJ/m²	ISO 179/1eA
	3.81 / 3.33	ftlb/in²	
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	178 / *	°C	ISO 11357-1/-3
Thermal Decomposition TGA, in air	223	°C	1% wt. loss
	434	°F	
Thermal Decomposition TGA, in nitrogen	223	°C	1% wt. loss
	433	°F	
ELECTRICAL PROPERTIES			
Surface Resistivity	* / 100000	Ohm	IEC 60093
OTHER PROPERTIES			

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Water Absorption	1.5 / *	%	Sim. to ISO 62
Humidity Absorption	0.6 / *	%	Sim. to ISO 62
Density	1080 / -	kg/m ³	ISO 1183
	1.08 / -	g/cm ³	

PACKAGING :&NBSP;

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

SHELF LIFE :&NBSP;

Two years from the delivery.

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

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.

PROCESSING	
Injection Molding	
DELIVERY FORM	
Pellets	
SPECIAL CHARACTERISTICS	
Conductive, Heat Stabilized, Light Stabilized	
REGIONAL AVAILABILITY	
North America, Europe, Asia Pacific, South and Central America, Near East/Africa	