

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 / *	cm ³ /10 min	ISO 1133
Temperature	235 / *	°C	-
	455 / *	°F	
Load	5 / *	kg	-
	11 / *	lb	
Melt Flow Rate	≥10	g/10mi n	ASTM D1238
MECHANICAL PROPERTIES			
Tensile Modulus	9600 / 9000 1.39E6 / 1.31E6	MPa psi	ISO 527-1/-2
Stress at Break	127 / 115 18400 / 16700	MPa psi	ISO 527-1/-2
Strain at Break	- / 4	%	ISO 527-1/-2
Charpy Impact Strength, +23°C	45 / 46 21.4 / 21.9	kJ/m ² ftlb/in ²	ISO 179/1eU
Charpy Impact Strength, -30°C	47 / 48 22.4 / 22.8	kJ/m ² ftlb/in ²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	11 / 11 5.23 / 5.23	kJ/m ² ftlb/in ²	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	8 / 7 3.81 / 3.33	kJ/m ² ftlb/in ²	ISO 179/1eA
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	178 / *	°C	ISO 11357-1/-3
Thermal Decomposition TGA, in air	223 434	°C °F	1% wt. loss
Thermal Decomposition TGA, in nitrogen	223 433	°C °F	1% wt. loss
ELECTRICAL PROPERTIES			
Surface Resistivity	* / 100000	Ohm	IEC 62631-3-2
OTHER PROPERTIES			

Water Absorption, 23°C, immersion, equilibrium	1.5 / *	%	ISO 62
Humidity Absorption, 23°C, RH50%, equilibrium	0.6 / *	%	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	Headquarters: Arkema France 420 rue d'Estienne d'Orves 92705 Colombes Cedex France T +33 (0)1 49 00 80 80 hpp.arkema.com
DELIVERY FORM Pellets	
SPECIAL CHARACTERISTICS Conductive, Heat Stabilized, Light Stabilized	Arkema Inc. – High Performance Polymers 900 First Avenue King of Prussia, PA 19406 Tel.: +1 610 205 7000 hpp.arkema.com
REGIONAL AVAILABILITY North America, Europe, Asia Pacific, South and Central America, Near East/Africa	

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