RILSAMID®
AMN BLACK P20 TLD

PA12-P, MHLR, 12-005

Rilsamid® AMN BLACK P20 TLD resin is a black colored polyamide. This grade is plasticized and designed for injection molding.

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	44 / *	cm³/10 min	ISO 1133
Temperature	235 / *	°C	-
	455 / *	°F	
Load	2.16 / *	kg	-
	4.76 / *	lb	
Molding Shrinkage, parallel	1.9 / *	%	ISO 294-4, 2577
Molding Shrinkage, normal	1.9 / *	%	ISO 294-4, 2577
MECHANICAL PROPERTIES			
Tensile Modulus	- / 550	MPa	ISO 527-1/-2
	- / 79800	psi	
Yield Stress	- / 31	MPa	ISO 527-1/-2
	- / 4500	psi	
Yield Strain	- / 19	%	ISO 527-1/-2
Nominal Strain at Break	- / >50	%	ISO 527-1/-2
Charpy Impact Strength, +23°C	- / No Break	kJ/m²	ISO 179/1eU
Charpy Impact Strength, -30°C	- / No Break	kJ/m²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	- / 18	kJ/m²	ISO 179/1eA
	- / 8.56	ftlb/in²	
Charpy Notched Impact Strength, -30°C	- / 4	kJ/m²	ISO 179/1eA
	- / 1.9	ftlb/in²	
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	174 / *	°C	ISO 11357-1/-3
OTHER PROPERTIES			
Density	1020 / 1020	kg/m³	ISO 1183
	1.02 / 1.02	g/cm³	

Processing conditions, Injection:

- Typical melt temperature (Min / Recommended / Max) : 250°C / 270°C / 290°C.
- Mold temperature : 20 - 40°C
- Drying time and temperature (only necessary for bags opened for more than two hours) : 4-6 hours at 80 - 90°C.

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Source: automatically generated TDS from Material Database on 20-02-2024

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PROCESSING

Injection Molding

DELIVERY FORM

Pellets

ADDITIVES

Release agent, Plasticizer

SPECIAL CHARACTERISTICS

Heat Stabilized, Light Stabilized

REGIONAL AVAILABILITY

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

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