

RILSAMID®

AMN BLACK P40 TLD

PA12-P, MHLR, 12-004

Rilsamid® AMN BLACK P40 TLD resin is a black colored polyamide. This black grade is plasticized and designed for injection molding.

PROPERTIES	DRY / COND	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	51 / *	cm ³ /10min	ISO 1133
Temperature	235 / *	°C	-
	455 / *	°F	-
Load	2.16 / *	kg	-
	4.76 / *	lb	-
Molding Shrinkage, parallel	1.0 / *	%	ISO 294-4, 2577
Molding Shrinkage, normal	1.3 / *	%	ISO 294-4, 2577
MECHANICAL PROPERTIES			
Tensile Modulus	- / 460	MPa	ISO 527-1/-2
	- /	psi	
Yield stress	66 / 700	MPa	ISO 527-1/-2
	- / 24	psi	
Yield strain	- / 3480	psi	
	- / 26	%	ISO 527-1/-2
Nominal Strain at Break	- / >50	%	ISO 527-1/-2
Charpy Impact Strength, +23°C	- / No Break	kJ/m ²	ISO 179/1eU
Charpy Impact Strength, -30°C	- / No Break	kJ/m ²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	- / 25	kJ/m ²	ISO 179/1eA
	- / 11.9	ftlb/in ²	
Charpy Notched Impact Strength, -30°C	- / 4	kJ/m ²	ISO 179/1eA
	- / 1.9	ftlb/in ²	
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	172 / *	°C	ISO 11357-1/-3
OTHER PROPERTIES			
Density	1040 / 1040	kg/m ³	ISO 1183
	1.04 / 1.04	g/cm ³	

Processing conditions, Injection:

- Typical melt temperature (Min / Recommended / Max) : 230°C / 250°C / 270°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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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	