

Radilon® MIXLOY S CPA100K 100 NT

Radici Group High Performance Polymers - *Polyamide 6 + ABS*

General Information

Product Description

PA6/ABS blend, 10% mineral filled injection moulding grade. Heat stabilized. Natural colour.

Suitable for parts requiring good dimensional stability and low warpage. Improved impact resistance and good property retention after moisture absorption.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Mineral, 10% Filler by Weight		
Features	• Good Dimensional Stability	• Good Impact Resistance	• Heat Stabilized
Agency Ratings	• EU 2011/65/EC		
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• (PA6+ABS)-MD10		

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm ³	ISO 1183
Water Absorption (Saturation, 73°F, 0.0787 in)	5.5	--	%	ISO 62
Water Absorption (Equilibrium, 73°F, 0.0787 in, 50% RH)	1.7	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	406000	189000	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	7980	5080	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	3.0	15	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	45	100	%	ISO 527-2/1A/50
Flexural Modulus ²	421000	189000	psi	ISO 178
Flexural Stress ²	13100	6530	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F	4.3	--	ft·lb/in ²	
73°F	4.8	8.6	ft·lb/in ²	
Charpy Unnotched Impact Strength (73°F)	No Break	No Break		ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Vicat Softening Temperature	275	--	°F	ISO 306/B50
Melting Temperature ³	432	--	°F	ISO 11357-3

Processing Information

Injection	Dry Unit
Drying Temperature - Desiccant Dryer	176 °F
Drying Time - Desiccant Dryer	2.0 to 4.0 hr
Dew Point - Desiccant Dryer	< -4 °F
Suggested Max Moisture	0.15 %
Processing (Melt) Temp	464 to 536 °F
Mold Temperature	104 to 140 °F
Injection Rate	Moderate



¹ Typical properties: these are not to be construed as specifications.

² 0.079 in/min

³ 10°C/min

