

Radilon® MIXLOY S HSA30 100 NT

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

General Information

Product Description

PA6/ABS blend, injection moulding grade. Natural colour.

Suitable for parts requiring good dimensional stability and low warpage. Good compromise between stiffness, toughness and good property retention after moisture absorption.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Features	• Balanced Stiffness/Toughness	• Good Dimensional Stability	• Low Warpage
Agency Ratings	• EU 2011/65/EC		
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• (PA6+ABS)		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.08	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.70	%	
Flow	0.70	%	
Water Absorption (Saturation, 73°F, 0.0787 in)	5.5	%	ISO 62
Water Absorption (Equilibrium, 73°F, 0.0787 in, 50% RH)	1.8	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	348000	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	7690	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	3.5	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	> 50	%	ISO 527-2/1A/50
Flexural Modulus ²	345000	psi	ISO 178
Flexural Stress ²	11600	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	5.7	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Melting Temperature ³	428	°F	ISO 11357-3

Processing Information

Injection	Nominal Value	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 500	°F
Mold Temperature	104 to 140	°F
Injection Rate	Moderate	

