

Radilon® MIXLOY S HSA20T 100 NT

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

General Information

Product Description

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

Suitable for parts requiring high impact resistance and improved flexibility. Low moisture absorption.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Impact Modifier		
Features	• Good Flexibility • High Impact Resistance	• Impact Modified • Low Moisture Absorption	
Agency Ratings	• EU 2011/65/EC		
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• (PA6+ABS)-I		

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.06	--	g/cm ³	ISO 1183
Water Absorption (Saturation, 73°F, 0.0787 in)	5.8	--	%	ISO 62
Water Absorption (Equilibrium, 73°F, 0.0787 in, 50% RH)	1.9	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	276000	131000	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	6530	4350	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	3.4	20	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	> 100	> 100	%	ISO 527-2/1A/50
Flexural Modulus ²	261000	132000	psi	ISO 178
Flexural Stress ²	9430	4790	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F	7.1	--	ft·lb/in ²	
73°F	31	51	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	235	--	°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 500 °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

