

Radilon® MIXLOY S HSA20TUK 9168 GY

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

General Information

Product Description

PA6/ABS blend, injection moulding grade. Toughened and UV stabilized. Grey colour.

Suitable for parts requiring high impact resistance and improved flexibility, intended to resist to light exposure. Low moisture absorption.

General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.06	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.90	%	
Flow	0.80	%	
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	Nominal Value	Unit	Test Method
Tensile Modulus	264000	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	6530	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	3.5	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	42	%	ISO 527-2/1A/50
Flexural Modulus ²	265000	psi	ISO 178
Flexural Stress ²	9430	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	43	ft-lb/in ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Melting Temperature ³	421	°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	

