

Radilon® MIXLOY S HSA20TUK 333 BK

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

General Information

Product Description

PA6/ABS blend, injection moulding grade. Toughened and UV stabilized. Black 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	• Black		
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
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	Dry	Conditioned	Unit	Test Method
Tensile Modulus	268000	131000	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	6530	4350	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	3.5	20	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	> 50	0.0	%	ISO 527-2/1A/50
Flexural Modulus ²	247000	132000	psi	ISO 178
Flexural Stress ²	8700	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	24	50	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	428	--	°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

Notes

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

² 0.079 in/min

³ 10°C/min

