

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

Additive	<ul style="list-style-type: none"> Impact Modifier UV Stabilizer
Features	<ul style="list-style-type: none"> Good Flexibility High Impact Resistance UV Stabilized Low Moisture Absorption
Agency Ratings	<ul style="list-style-type: none"> EU 2011/65/EC
RoHS Compliance	<ul style="list-style-type: none"> RoHS Compliant
Appearance	<ul style="list-style-type: none"> Black
Processing Method	<ul style="list-style-type: none"> Injection Molding
Resin ID (ISO 1043)	<ul style="list-style-type: none"> (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				ISO 62
Saturation, 73°F, 0.0787 in	5.8	--	%	
Water Absorption				ISO 62
Equilibrium, 73°F, 0.0787 in, 50% RH	1.9	--	%	
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				ISO 179/1eU
73°F	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Vicat Softening Temperature	235	--	°F	ISO 306/B50
Melting Temperature ³	428	--	°F	ISO 11357-3

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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