

# Radilon® MIXLOY D HSA20UK 3010 BK

## Radici Group High Performance Polymers - Polyamide 610

### General Information

#### Product Description

PA610/ABS blend, injection moulding grade. UV stabilized. Partially bio-based. Deep black colour.

Suitable for parts requiring superior dimensional stability, intended to resist to light exposure. Low water absorption and excellent aesthetic surface aspect.

#### General

Additive	• UV Stabilizer
Features	• Good Dimensional Stability • Outstanding Surface Finish • Low to No Water Absorption • Renewable Resource Content • UV Stabilized
Agency Ratings	• EU 2011/65/EC
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PA610+ABS

### Properties <sup>1</sup>

Physical	Dry	Conditioned	Unit	Test Method
Density	1.08	--	g/cm <sup>3</sup>	ISO 1183
Water Absorption				ISO 62
Saturation, 73°F, 0.0787 in	2.5	--	%	
Water Absorption				ISO 62
Equilibrium, 73°F, 0.0787 in, 50% RH	0.90	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	348000	305000	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	8700	7250	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	4.0	4.0	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	25	40	%	ISO 527-2/1A/50
Flexural Modulus <sup>2</sup>	334000	305000	psi	ISO 178
Flexural Stress <sup>2</sup>	12300	10900	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
73°F	1.9	1.9	ft·lb/in <sup>2</sup>	
Charpy Unnotched Impact Strength				ISO 179/1eU
73°F	33	--	ft·lb/in <sup>2</sup>	
Thermal	Dry	Conditioned	Unit	Test Method
Vicat Softening Temperature	275	--	°F	ISO 306/B50
Melting Temperature <sup>3</sup>	430	--	°F	ISO 11357-3

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**Processing Information**

<b>Injection</b>	<b>Dry</b>	<b>Unit</b>
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**

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 0.079 in/min

<sup>3</sup> 10°C/min