

**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**

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Additive	• UV Stabilizer
Features	• Good Dimensional Stability • Outstanding Surface Finish • UV Stabilized • Low to No Water Absorption • Renewable Resource Content
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>**

<b>Physical</b>	<b>Dry</b>	<b>Conditioned</b>	<b>Unit</b>	<b>Test Method</b>
Density	1.08	--	g/cm <sup>3</sup>	ISO 1183
Water Absorption (Saturation, 73°F, 0.0787 in)	2.5	--	%	ISO 62
Water Absorption (Equilibrium, 73°F, 0.0787 in, 50% RH)	0.90	--	%	ISO 62
<b>Mechanical</b>	<b>Dry</b>	<b>Conditioned</b>	<b>Unit</b>	<b>Test Method</b>
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
<b>Impact</b>	<b>Dry</b>	<b>Conditioned</b>	<b>Unit</b>	<b>Test Method</b>
Charpy Notched Impact Strength (73°F)	1.9	1.9	ft·lb/in <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	33	--	ft·lb/in <sup>2</sup>	ISO 179/1eU
<b>Thermal</b>	<b>Dry</b>	<b>Conditioned</b>	<b>Unit</b>	<b>Test Method</b>
Vicat Softening Temperature	275	--	°F	ISO 306/B50
Melting Temperature <sup>3</sup>	430	--	°F	ISO 11357-3

**Processing Information**

<b>Injection</b>	<b>Dry 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

