

Radilon® A USX200W 333 BK

 Radici Group High Performance Polymers - *Polyamide 66*

General Information

Product Description

PA66 injection moulding grade. Toughened, Heat stabilized. Black colour.

Suitable for parts requiring excellent impact resistance, even at low temperatures, and high flexibility.

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Additive	• Heat Stabilizer • Impact Modifier
Features	• Heat Stabilized • High Impact Resistance • High Flexibility • Low Temperature Heat Sealability
Uses	• Automotive Applications
Agency Ratings	• EU 2011/65/EC
RoHS Compliance	• RoHS Compliant
Automotive Specifications	• GM GMW16447P-PA66-T3
Appearance	• Black
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PA66-IT

 Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.08	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.5	%	
Flow	1.5	%	
Water Absorption (Saturation, 73°F, 0.0787 in)	7.0	%	ISO 62
Water Absorption (Equilibrium, 73°F, 0.0787 in, 50% RH)	1.8	%	ISO 62
Viscosity Index - Sulfuric Acid	3880	in ³ /lb	ISO 307
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	273000	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	6670	psi	ISO 527-2/1A/50
Flexural Modulus ²	280000	psi	ISO 178
Flexural Stress ²	10200	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	15	ft·lb/in ²	
73°F	30	ft·lb/in ²	
Notched Izod Impact Strength			ISO 180/1A
-22°F	11	ft·lb/in ²	
73°F	30	ft·lb/in ²	
Thermal	Nominal Value	Unit	Test Method
Melting Temperature ³	500	°F	ISO 11357-3
CLTE - Flow (73 to 131°F)	3.8E-6	in/in/°F	ISO 11359-2
CLTE - Transverse (73 to 131°F)	6.6E-6	in/in/°F	ISO 11359-2

Processing Information

Injection	Nominal Value	Unit
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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	0.10 %
Processing (Melt) Temp	527 to 563 °F
Mold Temperature	158 to 194 °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

