

Radilon® MIXLOY A RCPA2515W 333 BK

Radici Group High Performance Polymers - Polyamide 66 + ABS

General Information

Product Description

PA66/ABS blend, medium-high viscosity extrusion grade. 25% glass fibre and mineral filler reinforced, heat stabilized. Black colour.

Suitable for parts requiring low thermal conductivity, high thermal resistance and good mechanical properties. Good property retention after moisture absorption.

General

Filler / Reinforcement	• Glass Fiber/Mineral, 25% Filler by Weight
Additive	• Heat Stabilizer
Features	• Good Heat Resistance • Heat Stabilized
Agency Ratings	• EU 2011/65/EC
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Processing Method	• Extrusion • Injection Molding
Resin ID (ISO 1043)	• (PA66+ABS)-(GF+MD)25

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (280°C/10.0 kg)	2.6	g/10 min	ISO 1133
Water Absorption (Saturation, 73°F, 0.0787 in)	3.5	%	ISO 62
Water Absorption Equilibrium, 73°F, 0.0787 in, 50% RH	1.0	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.02E+6	psi	ISO 527-1/1A/1
Tensile Stress (Break)	15200	psi	ISO 527-2/1A/5
Tensile Strain (Break)	3.0	%	ISO 527-2/1A/5
Flexural Modulus ²	943000	psi	ISO 178
Flexural Stress ²	23200	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	4.0	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	40	ft·lb/in ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	464	°F	ISO 75-2/Bf
Deflection Temperature Under Load 264 psi, Unannealed	347	°F	ISO 75-2/Af
Melting Temperature ³	500	°F	ISO 11357-3
Thermal Conductivity ⁴ (73°F)	1.7	Btu·in/hr/ft ² /°F	ISO 8302

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Processing Information

Injection	Nominal Value	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	527 to 581	°F
Mold Temperature	140 to 212	°F
Injection Rate	Moderate	
Extrusion	Nominal Value	Unit
Melt Temperature	527 to 581	°F

Notes

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

² 0.079 in/min

³ 10°C/min

⁴ inplane