Radilon® S RCW2505W 3733 BK

Radici Group High Performance Polymers - *Polyamide 6*

General Information

Product Description

Polyamide 6 compound reinforced with 25% of a combination of special glass fibre and minerals. This injection moulding grade is also heat stabilized and lubricated.

Suitable for parts requiring rigidity, dimensional control, and low warp after repeated high temperature exposure.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber\Mineral, 25% Filler by Weight		
Additive	• Heat Stabilizer	• Lubricant	
Features	• Good Dimensional Stability • Good Rigidity	• Heat Stabilized • Low Warpage	• Lubricated
Uses	• Automotive Applications		
Agency Ratings	• EU 2011/65/EC		
RoHS Compliance	• RoHS Compliant		
Automotive Specifications	• STELLANTIS MS-DB-41 CPN4723		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PA6-MG25		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.34	g/cm³	ISO 1183
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	706000	psi	ISO 527-1/1A/1
Tensile Stress (Break)	11500	psi	ISO 527-2/1A/5
Tensile Strain (Break)	9.9	%	ISO 527-2/1A/5
Flexural Modulus [2]	667000	psi	ISO 178
Flexural Stress [2]	21900	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	2.8	ft·lb/in²	ISO 179/1eA
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (264 psi, Unannealed)	351	°F	ISO 75-2/Af
Melting Temperature [3]	428	°F	ISO 11357-3

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	0.10	%
Processing (Melt) Temp	464 to 536	°F
Mold Temperature	176 to 212	°F
Injection Rate	Moderate-Fast	

Notes

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

[2] 0.079 in/min

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