

Radilon® DT HSW 105 M NT

Radici Group High Performance Polymers - Polyamide 612

General Information

Product Description

PA612 injection moulding grade. Nucleated and lubricated, fast cycling. Heat stabilized. Natural colour.

General purpose grade, suitable for parts requiring high productivity.

General

Additive	<ul style="list-style-type: none"> Heat Stabilizer 	<ul style="list-style-type: none"> Lubricant 	<ul style="list-style-type: none"> Nucleating Agent
Features	<ul style="list-style-type: none"> Fast Molding Cycle General Purpose 	<ul style="list-style-type: none"> Heat Stabilized Lubricated 	<ul style="list-style-type: none"> Nucleated
Uses	<ul style="list-style-type: none"> General Purpose 		
Agency Ratings	<ul style="list-style-type: none"> EU 2011/65/EC 		
RoHS Compliance	<ul style="list-style-type: none"> RoHS Compliant 		
Appearance	<ul style="list-style-type: none"> Natural Color 		
Processing Method	<ul style="list-style-type: none"> Injection Molding 		
Resin ID (ISO 1043)	<ul style="list-style-type: none"> PA612 		

Properties¹

Physical	Nominal Value	Unit	Test Method
Density	1.06	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.1	%	
Flow	1.0	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	363000	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	8990	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	12	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	35	%	ISO 527-2/1A/50
Flexural Modulus ²	334000	psi	ISO 178
Flexural Stress ²	11600	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	2.1	ft·lb/in ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Melting Temperature ³	419	°F	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity (500 V)	1.0E+12	ohms	IEC 62631-3-2
Volume Resistivity (500 V)	1.0E+13	ohms·m	IEC 62631-3-1
Flammability	Nominal Value	Unit	Test Method
Burning Rate (0.118 in)	0.0	in/min	ISO 3795
Flame Rating (0.031 in)	V-2		UL 94

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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	446 to 500	°F
Mold Temperature	158 to 176	°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