

Radilon® DT 22L 100 NT

Radici Group High Performance Polymers - Polyamide 612

General Information

Product Description

PA 612 low viscosity. Lubricated. Natural colour.

Suitable for extrusion processes where low viscosity is required, typically monofilament extrusion. Suitable also for injection and rotational moulding operations.

General

Additive	• Lubricant	
Features	• Low Viscosity	• Lubricated
Agency Ratings	• EU 2011/65/EC	
RoHS Compliance	• RoHS Compliant	
Appearance	• Natural Color	
Processing Method	• Injection Molding	• Rotational Molding
Resin ID (ISO 1043)	• PA612	

Properties¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.07	--	g/cm ³	ISO 1183
Viscosity Number				ISO 307
H ₂ SO ₄ (Sulphuric Acid)	82.0	--	cm ³ /g	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	334000	--	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	8990	--	psi	ISO 527-2/1A/50
Nominal Tensile Strain at Break	6.0	--	%	ISO 527-2/1A/50
Flexural Modulus ²	334000	--	psi	ISO 178
Flexural Stress ²	11600	--	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
73°F	2.4	--	ft·lb/in ²	
Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature ³	424	--	°F	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity (500 V)	1.0E+12	1.0E+10	ohms	IEC 62631-3-2
Volume Resistivity (500 V)	1.0E+13	1.0E+11	ohms·m	IEC 62631-3-1
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (0.118 in)	< 3.9	--	in/min	ISO 3795
Flame Rating (0.031 in)	HB	--		UL 94

Processing Information

Injection	Dry	Unit
Drying Temperature - Desiccant Dryer	176	°F
Drying Time - Desiccant Dryer	2.0 to 4.0	hr
Dew Point - Desiccant Dryer	< -4	°F

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Injection	Dry	Unit
Suggested Max Moisture	0.10	%
Processing (Melt) Temp	446 to 500	°F
Mold Temperature	158 to 176	°F
Injection Rate	Moderate	

Extrusion	Dry	Unit
Melt Temperature	464 to 554	°F

Notes

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

² 0.079 in/min

³ 10°C/min