

Radilon® DT 22D 1000 NT

Radici Group High Performance Polymers - Polyamide 612

General Information

Product Description

PA612 low viscosity. Natural colour.

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

General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.06	g/cm ³	ISO 1183
Water Absorption (Saturation, 73°F, 0.0787 in)	3.0	%	ISO 62
Water Absorption Equilibrium, 73°F, 0.0787 in, 50% RH	1.2	%	ISO 62
Viscosity Number (H ₂ SO ₄ (Sulphuric Acid))	95.0	cm ³ /g	ISO 307
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	334000	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	8700	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	7.0	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	> 100	%	ISO 527-2/1A/50
Flexural Modulus ²	319000	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
Charpy Unnotched Impact Strength (73°F)	No Break		ISO 179/1eU
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
Flame Rating (0.031 in)	HB		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	
Extrusion	Nominal Value	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