Radilon® A FL2 100 NT

Radici Group High Performance Polymers - *Polyamide 66*

General Information

Product Description

PA66 injection moulding grade with PTFE. Natural colour

Suitable for parts requiring a low friction coefficient and excellent wear properties. Typical applications include sliding blocks and bushings.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• PTFE		
Features	• Low Friction	• Wear Resistant	
Uses	• Bushings	• Siding Applications	
Agency Ratings	• EU 2011/65/EC		
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PA66 S20		

Properties [1]

Physical	Dry	Conditioned	Unit	Test Method
Density	1.26	--	g/cm³	ISO 1183
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	421000	--	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	9430	--	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	8.0	--	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	10	--	%	ISO 527-2/1A/50
Flexural Modulus [2]	392000	--	psi	ISO 178
Flexural Stress [2]	13800	--	psi	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	1.9	--	ft·lb/in²	ISO 179/1eA
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	410	--	°F	ISO 75-2/Bf
Deflection Temperature Under Load (264 psi, Unannealed)	167	--	°F	ISO 75-2/Af
Vicat Softening Temperature	365	--	°F	ISO 306/B50
Melting Temperature [3]	500	--	°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
Comparative Tracking Index (Solution A)	600	--	V	IEC 60112
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Burning Rate (0.118 in)	0.0	--	in/min	ISO 3795
Flame Rating (0.031 in)	HB	--		UL 94
Glow Wire Flammability Index (0.08 in)	1200	--	°F	IEC 60695-2-12

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
Suggested Max Moisture	0.15	%
Processing (Melt) Temp	518 to 554	°F
Mold Temperature	158 to 194	°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