HK:+852-69575415 China GuangDong:+13538586433 ShangHai:+18816996168

Radilon® A USX200K 1700 NT

Radici Group High Performance Polymers - Polyamide 66

General Information

Product Description

PA66 Super impact modified, moderately heat stabilized, injection moulding grade, Natural colour.

Suitable for parts requiring excellent impact resistance, even at low temperatures, and high flexibility.

General		
Additive	• Heat Stabilizer	• Impact Modifier
Features	• Heat Stabilized • High Flexibility	• High Impact Resistance • Low Temperature Heat Sealability
Uses	• Automotive Applications	
Agency Ratings	• EU 2011/65/EC	
RoHS Compliance	• RoHS Compliant	
Appearance	• Natural Color	
Processing Method	• Extrusion	• Injection Molding
Resin ID (ISO 1043)	• PA66-IT	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.07	g/cm³	ISO 1183
Molding Shrinkage [2]			ISO 294-4
Across Flow	1.7	%	
Flow	1.9	%	
Water Absorption (Saturation, 73°F, 0.0787 in)	7.0	%	ISO 62
Water Absorption			ISO 62
Equilibrium, 73°F, 0.0787 in, 50% RH	1.8	%	
Viscosity Index - Sulfuric Acid	3880	in³/lb	ISO 307
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	284000	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	7250	psi	ISO 527-2/1A/50
Flexural Modulus [3]	261000	psi	ISO 178
Flexural Stress [3]	10600	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	17	ft·lb/in²	
73°F	38	ft·lb/in²	
Notched Izod Impact Strength			ISO 180/1A
-22°F	14	ft·lb/in²	
73°F	35	ft·lb/in²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	284	°F	ISO 75-2/Bf
Deflection Temperature Under Load			ISO 75-2/Af
264 psi, Unannealed	131	°F	

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Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	338	°F	ISO 306/B50
Melting Temperature [4]	500	°F	ISO 11357-3
CLTE - Flow (73 to 131°F)	3.8E-6	in/in/°F	ISO 11359-2
CLTE - Transverse (73 to 131°F)	6.6E-6	in/in/°F	ISO 11359-2

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	527 to 563	°F
Mold Temperature	158 to 194	°F
Injection Rate	Moderate	

Extrusion	Nominal Value	Unit
Melt Temperature	518 to 536	°F

Notes

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

[2] 290°C Melt temperature/ 70°C Mold Temperature/ 60 MPa Cavity Pressure

[3] 0.079 in/min

[4] 10°C/min