

TECHNYL® A 236SI V12 RD R3000

DOMO Engineering Plastics - Polyamide 66

General Information

Product Description

*Previously DOMAMID 66G12IK1 RDR3000

Polyamide 66, 12% glass fiber reinforced, low temperature impact modified, for injection moulding

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Glass Fiber, 12% Filler by Weight		
Additive	• Impact Modifier		
Features	• High Impact Resistance	• Impact Modified	• Low Temperature Impact Resistance
Uses	• Consumer Applications	• Electrical/Electronic Applications	• Industrial Applications
RoHS Compliance	• RoHS Compliant		
Processing Method	• Injection Molding		
ISO Designation (ISO 16396)	• PA66,GF12,MP,S14-040		
Resin ID (ISO 1043)	• PA66-I-GF12		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.17	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.0 to 1.2	%	
Flow	0.50 to 0.70	%	
Viscosity Number (96% H2SO4 (Sulphuric Acid))	145	cm ³ /g	ISO 307
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	595000	psi	ISO 527-1
Tensile Stress (Break)	13100	psi	ISO 527-2
Tensile Strain (Break)	4.0	%	ISO 527-2
Flexural Modulus	479000	psi	ISO 178
Flexural Stress	20300	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	5.2	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	29	ft·lb/in ²	ISO 179/1eU
Notched Izod Impact Strength (73°F)	5.2	ft·lb/in ²	ISO 180/1A
Unnotched Izod Impact Strength (73°F)	26	ft·lb/in ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	473	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	446	°F	ISO 75-2/A
Vicat Softening Temperature	473	°F	ISO 306
Melting Temperature ²	504	°F	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 62631-3-2
Volume Resistivity	1.0E+13	ohms·m	IEC 62631-3-1
Flammability	Nominal Value	Unit	Test Method
Burning Rate (0.0394 in)	< 3.9	in/min	FMVSS 302
Flame Rating (0.030 in)	HB		UL 94



Processing Information

Injection	Nominal Value	Unit
Drying Temperature	167 to 185	°F
Drying Time	2.0 to 4.0	hr
Dew Point	< -22	°F
Processing (Melt) Temp	518 to 554	°F
Mold Temperature	194 to 230	°F

Injection Notes

The material is supplied in airtight bags, ready for use. In case that the virgin material has absorbed moisture, it must be dried with a dehumidified air drying equipment, dew point minimum -20°C. Recommended time 2-4h.

Notes

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

² 10°C/min

