

TECHNYL® AR1 218S V30 BK

DOMO Engineering Plastics - Polyamide 66 + PA 6

General Information

Product Description

TECHNYL AR1 218S V30 BK is a blend polyamide 66 and 6, wide specs, reinforced with 30% of glass fiber, heat stabilised for injection Moulding.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• Good Surface Finish	• Heat Aging Resistant	• Heat Stabilized
Agency Ratings	• EC 1907/2006 (REACH)		
RoHS Compliance	• RoHS Compliant		
ISO Designation (ISO 16396)	• PA66,GF30,MH,S14-070		
Resin ID (ISO 1043)	• PA66 + PA6-GF30		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Water Absorption (24 hr, 73°F)	1.4 to 1.5	%	ISO 62
Water Absorption (Saturation, 73°F)	6.1	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	2.2 to 2.4	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.16E+6	psi	ISO 527-1
Tensile Stress (Break)	21800	psi	ISO 527-2
Tensile Strain (Break)	2.4	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (73°F)	24	ft·lb/in ²	ISO 179/1eU
Flammability	Nominal Value	Unit	Test Method
Burning Rate (0.0394 in)	< 3.9	in/min	FMVSS 302

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176	°F
Suggested Max Moisture	0.20	%
Rear Temperature	518 to 536	°F
Middle Temperature	527 to 545	°F
Front Temperature	536 to 554	°F
Mold Temperature	158 to 212	°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.

