

Bergamid™ B70 KF20 Black

Avient Corporation - Polyamide 6

Wednesday, March 23, 2022

General Information

General

Generic Name	• Polyamide 6 (Nylon 6)
Material Status	• Developmental
Availability	• Europe
Filler / Reinforcement	• Carbon Fiber, 20% Filler by Weight
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.21 to 1.25		ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	> 13800	MPa	ISO 527-1
Tensile Stress	220	MPa	ISO 527-2
Tensile Strain (Break)	1.0 to 3.0	%	ISO 527-2
Flexural Stress	345	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 0.45 MPa, Unannealed	221	°C	ISO 75-2/B
Deflection Temperature Under Load 1.8 MPa, Unannealed	216	°C	ISO 75-2/A
Melting Temperature (DSC)	215 to 225	°C	ISO 3146

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	80	°C
Drying Time	3.0 to 4.0	hr
Processing (Melt) Temp	260 to 290	°C
Mold Temperature	50 to 90	°C

Notes

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