

Amilan™ CM1056 K48

Nylon 6

TECHNICAL DATA

Product Description

High viscosity, GF20%

Uses	- Automotive Applications - Blow Molding Applications - Bottles
Processing Method	Blow Molding
ISO Designation	>PA6-GF20<
Type	Nylon6/Blow molding

ASTM & ISO Properties

Physical	Dry	Water Absorption	Unit	Test Method
Density (23°C)	1.26	--	g/cm³	ISO 1183
Water Absorption ¹				ISO 62
24 hr, 23°C	1.2	--	%	
Saturation, 23°C	6.5	--	%	
Mechanical	Dry	Water Absorption	Unit	Test Method
Tensile Strength				ISO 527-2
-40°C	190	165	MPa	
23°C	115	70	MPa	
80°C	55	45	MPa	
Tensile Strain				ISO 527-2
Break, -40°C	2.5	3.0	%	
Break, 23°C	3.0	9.0	%	
Break, 80°C	4.0	5.0	%	
Flexural Modulus				ISO 178
-40°C	6000	3400	MPa	
23°C	5200	2600	MPa	
80°C	2300	1000	MPa	
Flexural Stress (23°C)	175	100	MPa	ISO 178
Impact	Dry	Water Absorption	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
-40°C	6.5	--	kJ/m²	
23°C	11.5	27.0	kJ/m²	
Hardness	Dry	Water Absorption	Unit	Test Method
Rockwell Hardness				ISO 2039-2
R-Scale, 23°C	119	--		
Thermal	Dry	Water Absorption	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	214	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	184	--	°C	ISO 75-2/A
Melting Temperature	225	--	°C	DSC

Additional Information

Dry Water absorption Moisture Content 2.5%

Notes

¹ in water

