

# Amilan™ CM1056 K48

Toray Industries, Inc. - Polyamide 6

## General Information

### Product Description

High viscosity, GF20%

### General

Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Features	• Chemical Resistant • High Strength
Uses	• Automotive Applications • Blow Molding Applications • Bottles
Processing Method	• Blow Molding
ISO Designation	• >PA6-GF20<

## Properties<sup>1</sup>

Physical	Dry	Conditioned	Unit	Test Method
Density (73°F)	1.26	--	g/cm <sup>3</sup>	ISO 1183
Water Absorption <sup>2</sup> (24 hr, 73°F)	1.2	--	%	ISO 62
Water Absorption <sup>2</sup> Saturation, 73°F	6.5	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Stress				ISO 527-2
-40°F	27600	23900	psi	
73°F	16700	10200	psi	
176°F	7980	6530	psi	
Tensile Strain				ISO 527-2
Break, -40°F	2.5	3.0	%	
Break, 73°F	3.0	9.0	%	
Break, 176°F	4.0	5.0	%	
Flexural Modulus				ISO 178
-40°F	870000	493000	psi	
73°F	754000	377000	psi	
176°F	334000	145000	psi	
Flexural Stress (73°F)	25400	14500	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
-40°F	3.1	--	ft·lb/in <sup>2</sup>	
73°F	5.5	13	ft·lb/in <sup>2</sup>	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ISO 2039-2
R-Scale, 73°F	119	--		
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2/B
66 psi, Unannealed	417	--	°F	
Deflection Temperature Under Load				ISO 75-2/A
264 psi, Unannealed	363	--	°F	
Melting Temperature	437	--	°F	DSC

### Additional Information

Dry Water absorption Moisture Content 2.5%