

# MAZMID B 153 SP40

Polyamide 6

Mazzaferro Indústria e Comércio de Polímeros e Fibras Ltda.

Message:

MAZMID B 153 SP40 is a Polyamide 6 (Nylon 6) product filled with 40% mineral. It can be processed by injection molding and is available in Latin America.  
Typical application: Automotive.  
Characteristics include:  
Flame Rated  
Good Aesthetics  
Heat Stabilizer

General Information				
Filler / Reinforcement		Mineral,40% Filler by Weight		
Additive		Heat Stabilizer		
Features		Good Surface Finish		
		Heat Stabilized		
		Paintable		
Uses		Automotive Applications		
Appearance		Black		
		Colors Available		
		Grey		
		Natural Color		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.45	--	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.80 to 1.0	--	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.80 to 0.90	--	%	ASTM D570
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	115	105		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	6700	3500	MPa	ASTM D638
Tensile Strength	85.0	60.0	MPa	ASTM D638
Tensile Elongation (Break)	5.0	20	%	ASTM D638
Flexural Modulus	6200	2800	MPa	ASTM D790
Flexural Strength	135	80.0	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact	45	90	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method


Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	180	--	°C	
1.8 MPa, Unannealed	135	--	°C	
Continuous Use Temperature				
	90.0 to 100	--	°C	
Melting Temperature				
	212 to 214	--	°C	
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+12	--	ohms·cm	ASTM D257
Dielectric Strength	15	--	kV/mm	ASTM D149
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	V-2	--		UL 94

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