Technical Data Sheet

SCHULAMID® 6 MBF 6010 H

Polyamide 6
Engineering Plastics

Product Description
60% barium sulfate and glass fiber reinforced, heat stabilized Polyamide 6 with high density

General			
Filler / Reinforcement	• Glass\Mineral, 60% Filler by Weight		
Features	• Heat Aging Resistant • High Density	• Low Shrinkage • Low Warpage	• Noise Damping • Oil Resistant
Processing Method	• Injection Molding		

Physical	Dry	Conditioned	Unit	Test Method
Density	1.95	--	g/cm³	ISO 1183/A
Water Absorption				ISO 62
Equilibrium, 73°F (23°C), 50% RH	1.4	--	%	
Viscosity Number	145	--	cm³/g	ISO 307

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1.17E+6 (8100)	595000 (4100)	psi (MPa)	ISO 527-2/1A/1
Tensile Stress (Break)	13100 (90.0)	7250 (50.0)	psi (MPa)	ISO 527-2/1A/5
Tensile Strain (Break)	2.8	7.5	%	ISO 527-2/1A/5

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F (-30°C)	2.4 (5.0)	--	ft·lb/in² (kJ/m²)	
73°F (23°C)	3.3 (7.0)	4.8 (10)	ft·lb/in² (kJ/m²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	19 (40)	--	ft·lb/in² (kJ/m²)	
73°F (23°C)	21 (45)	31 (65)	ft·lb/in² (kJ/m²)	

Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	29000 (200)	--	psi (MPa)	ISO 2039-1

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
66 psi (0.45 MPa), Unannealed	410 (210)	--	°F (°C)	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	365 (185)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature				
--	392 (200)	--	°F (°C)	ISO 306/A50
--	419 (215)	--	°F (°C)	ISO 306/B50

Technical Data Sheet

SCHULAMID® 6 MBF 6010 H

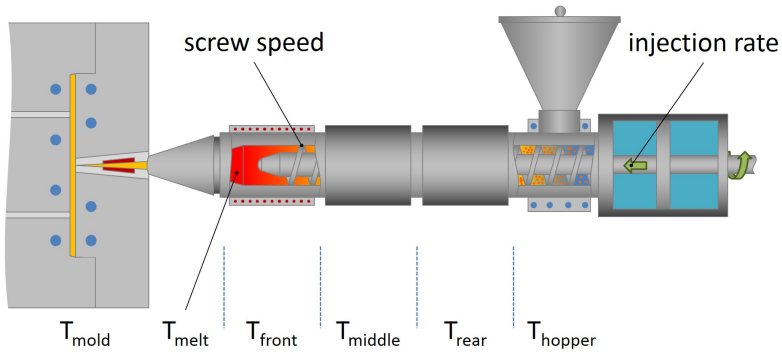
Polyamide 6
Engineering Plastics

Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate				
0.0787 in (2.00 mm)	< 3.9 (< 100)	--	in/min (mm/min)	ISO 3795
0.0787 in (2.00 mm)	< 3.9 (< 100)	--	in/min (mm/min)	FMVSS 302

Technical Data Sheet

SCHULAMID® 6 MBF 6010 H

Polyamide 6
Engineering Plastics



Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Suggested Max Regrind	20 %	20 %
Processing (Melt) Temp	482 to 536 °F	250 to 280 °C
Mold Temperature	140 to 212 °F	60 to 100 °C

Notes

These are typical property values not to be construed as specification limits.