



SCHULAMID[®] 6 MV 13

Polyamide 6
Engineering Plastics

Product Description

Medium viscosity Polyamide 6 - standard grade

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Processability • Good Toughness	• Medium Viscosity • Oil Resistant	
Automotive Specifications	• GM QK 002621 Color: Natural	• IMDS ID 4786097 Color: Natural	
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PA6		

Physical	Dry	Conditioned	Unit	Test Method
Density	1.13	--	g/cm ³	ISO 1183/A
Water Absorption (Saturation, 73°F (23°C))	2.9	--	%	ISO 62
Viscosity Number	140	--	cm ³ /g	ISO 307

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	406000 (2800)	160000 (1100)	psi (MPa)	ISO 527-2/1A/1
Tensile Stress (Yield)	12300 (85.0)	6530 (45.0)	psi (MPa)	ISO 527-2/1A/50
Tensile Strain (Yield)	3.5	18	%	ISO 527-2/1A/50

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F (-30°C)	2.4 (5.0)	--	ft·lb/in ² (kJ/m ²)	
73°F (23°C)	3.8 (8.0)	17 (35)	ft·lb/in ² (kJ/m ²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	No Break	--		
73°F (23°C)	No Break	No Break		

Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	20300 (140)	12300 (85.0)	psi (MPa)	ISO 2039-1



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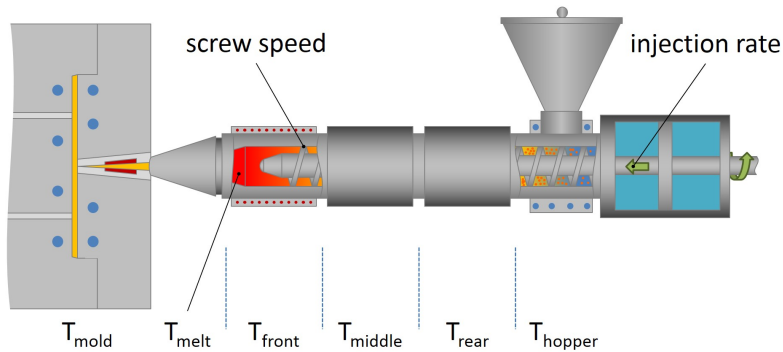
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Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
66 psi (0.45 MPa), Unannealed	374 (190)	--	°F (°C)	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	158 (70.0)	--	°F (°C)	ISO 75-2/ Af
Vicat Softening Temperature				
--	401 (205)	--	°F (°C)	ISO 306/A50
--	383 (195)	--	°F (°C)	ISO 306/B50
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	> 1.0E+15	> 1.0E+12	ohms	IEC 60093
Volume Resistivity	> 1.0E+13	> 1.0E+10	ohms·cm	IEC 60093
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.06 in (1.5 mm)	V-2	--		
0.030 in (0.75 mm)	HB	--		
Glow Wire Flammability Index				IEC 60695-2-12
0.06 in (1.5 mm)	--	1560 (850)	°F (°C)	
0.12 in (3.0 mm)	--	1560 (850)	°F (°C)	



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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 518 °F	250 to 270 °C
Mold Temperature	140 to 194 °F	60 to 90 °C