

Technical Data Sheet

SCHULAMID® Schulamid 6 MV 14-L

Polyamide 6
Engineering Plastics

Product Description

Medium viscosity Polyamide 6

General

Features	• Good Processability • Good Toughness	• Medium Viscosity • Oil Resistant
Automotive Specifications	• FORD WSK-M4D672-A • GM QK 002621 Color: 96.8127 LW Black-green	• GM QK 002621 Color: 968001 Black • IMDS ID 4786786 Color: 968001 Black
UL File Number	• E86615	
Processing Method	• Injection Molding	
Resin ID (ISO 1043)	• PA6	

Physical	Dry	Conditioned	Unit	Test Method
Density	1.13	--	g/cm ³	ISO 1183/A
Molding Shrinkage	0.80 to 1.5	--	%	ISO 294-4
Viscosity Number	145	--	cm ³ /g	ISO 307

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	435000 (3000)	160000 (1100)	psi (MPa)	ISO 527-2/1A/1
Tensile Stress (Yield)	11600 (80.0)	6530 (45.0)	psi (MPa)	ISO 527-2/1A/50
Tensile Strain (Yield)	4.0	20	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	10	> 100	%	ISO 527-2/1A/50
Flexural Modulus	334000 (2300)	--	psi (MPa)	ISO 178
Flexural Stress	14500 (100)	--	psi (MPa)	ISO 178
Flexural Strain at Flexural Strength	6.5	--	%	ISO 178

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)	3.3 (7.0)	24 (50)	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		

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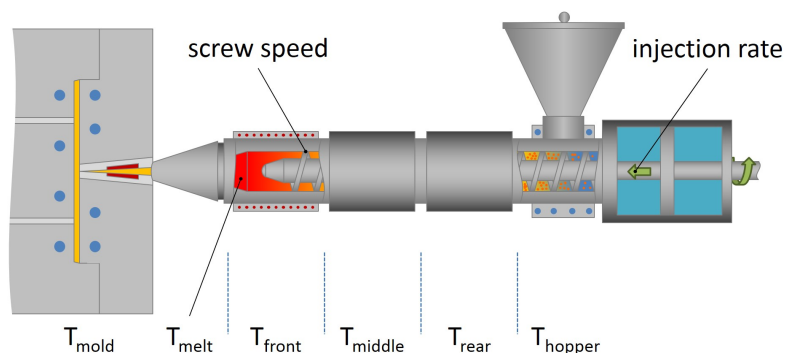
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Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
66 psi (0.45 MPa), Unannealed	338 (170)	--	°F (°C)	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	140 (60.0)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature				
--	410 (210)	--	°F (°C)	ISO 306/A50
--	374 (190)	--	°F (°C)	ISO 306/B50
RTI Elec				UL 746
0.06 in (1.5 mm)	149 (65.0)	--	°F (°C)	
0.12 in (3.0 mm)	149 (65.0)	--	°F (°C)	
RTI Imp				UL 746
0.06 in (1.5 mm)	149 (65.0)	--	°F (°C)	
0.12 in (3.0 mm)	149 (65.0)	--	°F (°C)	
RTI Str				UL 746
0.06 in (1.5 mm)	149 (65.0)	--	°F (°C)	
0.12 in (3.0 mm)	149 (65.0)	--	°F (°C)	
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·m	IEC 62631-3-1
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate ¹				
0.0787 in (2.00 mm)	0.0	--	in/min (mm/min)	ISO 3795
0.0787 in (2.00 mm)	0.0	--	in/min (mm/min)	FMVSS 302
Flammability Classification				IEC 60695-11-10, -20
0.06 in (1.5 mm)	V-2	--		
0.12 in (3.0 mm)	V-2	--		
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

Notes

¹ Self-Extinguishing

Notes

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