Technical Data Sheet

Schulamid 66/6 MT 20 K1849

Polyamide 66/6 Copolymer
LyondellBasell Industries
Engineering Plastics

Product Description
20% talc filled and impact modified Polyamide 66/6

General		
Filler / Reinforcement	• Talc, 20% Filler by Weight	
Features	• Good Stiffness • Medium Viscosity	• Oil Resistant • Wear Resistant
Processing Method	• Injection Molding	

Physical	Dry	Conditioned	Unit	Test Method
Density	1.28	--	g/cm³	ISO 1183/A
Water Absorption				ISO 62
Equilibrium, 73°f (23°c), 50% Rh	1.4	--	%	

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	537000 (3700)	218000 (1500)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Yield)	7250 (50.0)	4790 (33.0)	psi (MPa)	ISO 527-2/1A/50
Tensile Strain (Yield)	3.5	27	%	ISO 527-2/1A/50

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°f (-30°c)	4.3 (9.0)	--	ft·lb/in² (kJ/m²)	
73°f (23°c)	5.7 (12)	9.5 (20)	ft·lb/in² (kJ/m²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°f (-30°c)	No Break	--		
73°f (23°c)	No Break	No Break		

Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
66 Psi (0.45 Mpa), Unannealed	356 (180)	--	°F (°C)	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	149 (65.0)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature				
--	347 (175)	--	°F (°C)	ISO 306/B50
--	428 (220)	--	°F (°C)	ISO 306/A50

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

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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
Flammability Classification				IEC 60695-11-10, -20
0.06 In (1.5 Mm)	HB	--		
0.12 In (3.0 Mm)	HB	--		

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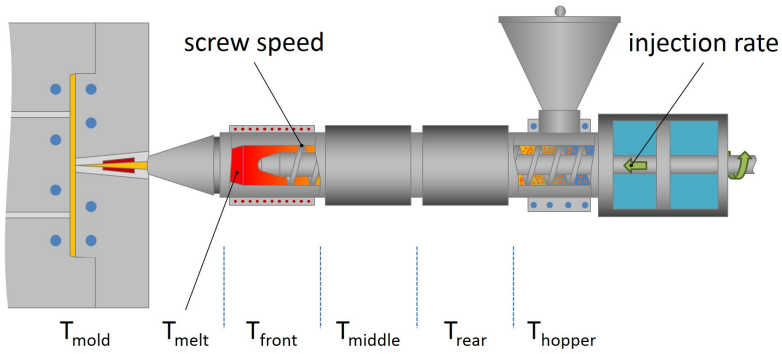

Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Processing (Melt) Temp	518 to 572 °F	270 to 300 °C
Mold Temperature	158 to 212 °F	70 to 100 °C

Notes

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