Technical Data Sheet

Schulamid 66 MKF 4015

Polyamide 66
LyondellBasell Industries
Engineering Plastics

Product Description
40% mineral and glass fiber reinforced, heat stabilized Polyamide 66

General			
Filler / Reinforcement	• Glass\Mineral, 40% Filler by Weight		
Features	• Balanced Stiffness/Toughness	• Low Warpage	• Oil Resistant
Processing Method	• Injection Molding		

Physical	Dry	Conditioned	Unit	Test Method
Density	1.44	--	g/cm³	ISO 1183/A
Viscosity Number	140	--	cm³/g	ISO 307
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	1.20E+6 (8300)	725000 (5000)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Break)	17400 (120)	11600 (80.0)	psi (MPa)	ISO 527-2/1A/5
Tensile Strain (Break)	2.5	6.5	%	ISO 527-2/1A/5
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-22°f (-30°c)	1.4 (3.0)	--	ft·lb/in² (kJ/m²)	
73°f (23°c)	1.9 (4.0)	2.4 (5.0)	ft·lb/in² (kJ/m²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°f (-30°c)	17 (36)	--	ft·lb/in² (kJ/m²)	
73°f (23°c)	19 (40)	28 (58)	ft·lb/in² (kJ/m²)	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load				
66 Psi (0.45 Mpa), Unannealed	473 (245)	--	°F (°C)	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	410 (210)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature				
--	457 (236)	--	°F (°C)	ISO 306/B50
--	> 482 (> 250)	--	°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)	1.6 (40)	--	in/min (mm/min)	ISO 3795
0.0787 In (2.00 Mm)	1.6 (40)	--	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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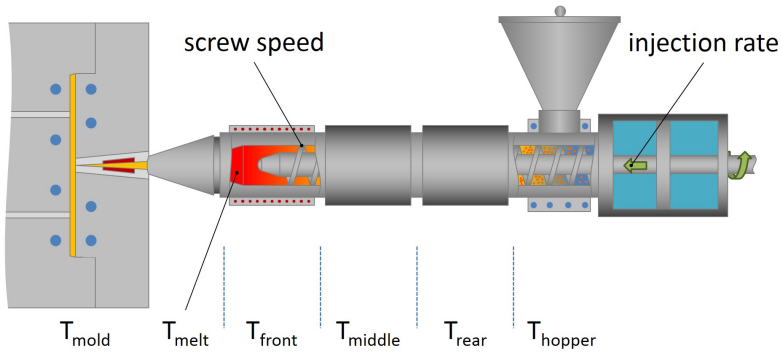

Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Processing (Melt) Temp	536 to 572 °F	280 to 300 °C
Mold Temperature	140 to 248 °F	60 to 120 °C

Notes

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