Technical Data Sheet

Schulamid 66 MK 20 HI

Polyamide 66
LyondellBasell Industries
Engineering Plastics

Product Description	
20% mineral filled PA 66, impact modified	

General	
Filler / Reinforcement	• Mineral, 20% Filler by Weight
Additive	• Impact Modifier
Features	• Impact Modified
Processing Method	• Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.28	--	g/cm³	ISO 1183/A
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	508000 (3500)	290000 (2000)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Break)	10200 (70.0)	6530 (45.0)	psi (MPa)	ISO 527-2/1A/5
Tensile Strain (Break)	12	16	%	ISO 527-2/1A/5
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-22°f (-30°c)	2.9 (6.0)	2.4 (5.0)	ft·lb/in² (kJ/m²)	
73°f (23°c)	3.8 (8.0)	6.7 (14)	ft·lb/in² (kJ/m²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°f (-30°c)	57 (120)	81 (170)	ft·lb/in² (kJ/m²)	
73°f (23°c)	59 ft·lb/in² (130 kJ/m²)	No Break	(kJ/m²)	
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Ball Indentation Hardness (H 358/30)	24700 (170)	--	psi (MPa)	ISO 2039-1
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load				
66 Psi (0.45 Mpa), Unannealed	338 (170)	--	°F (°C)	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	194 (90.0)	--	°F (°C)	ISO 75-2/Af
Ball Pressure Test (212°f (100°c))	Pass	--		IEC 60695-10-2
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface Resistivity	> 1.0E+15	--	ohms	IEC 60093
Volume Resistivity	> 1.0E+13	1.0E+10	ohms·m	IEC 62631-3-1
Comparative Tracking Index	550	--	V	IEC 60112

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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
0.13 In (3.2 Mm)	HB	--		

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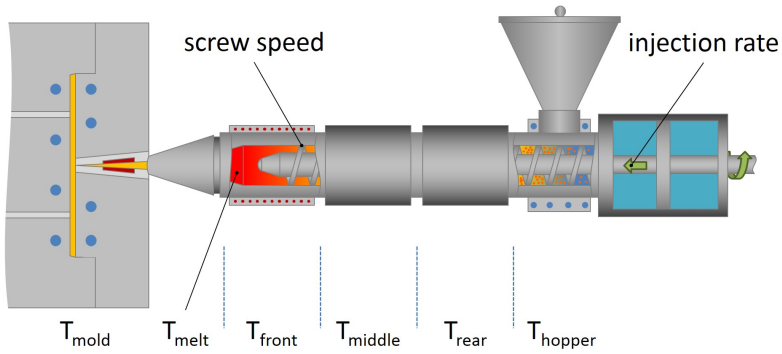

Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Processing (Melt) Temp	536 to 572 °F	280 to 300 °C
Mold Temperature	140 to 248 °F	60 to 120 °C

Notes

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