Technical Data Sheet

Schulamid 66 MK 40 HI H

Polyamide 66
LyondellBasell Industries
Engineering Plastics

Product Description
40% mineral filled PA 66, impact modified, heat stabilized

General		
Filler / Reinforcement	• Mineral, 40% Filler by Weight	
Additive	• Heat Stabilizer	• Impact Modifier
Features	• Heat Stabilized	• Impact Modified
Processing Method	• Injection Molding	
Part Marking Code (ISO 11469)	• >PA66-M<	

Physical	Dry	Conditioned	Unit	Test Method
Density	1.45	--	g/cm³	ISO 1183/A
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	798000 (5500)	522000 (3600)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Break)	12300 (85.0)	8700 (60.0)	psi (MPa)	ISO 527-2/1A/5
Tensile Strain (Break)	6.0	8.0	%	ISO 527-2/1A/5
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-22°f (-30°c)	3.3 (7.0)	4.3 (9.0)	ft·lb/in² (kJ/m²)	
73°f (23°c)	4.3 (9.0)	5.7 (12)	ft·lb/in² (kJ/m²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°f (-30°c)	31 (65)	43 (90)	ft·lb/in² (kJ/m²)	
73°f (23°c)	38 ft·lb/in² (80 kJ/m²)	No Break	(kJ/m²)	
Notched Izod Impact Strength (-40°f (-40°c))	2.9 (6.0)	--	ft·lb/in² (kJ/m²)	ISO 180/1A
Unnotched Izod Impact Strength				ISO 180/1U
-40°f (-40°c)	33 (70)	--	ft·lb/in² (kJ/m²)	
73°f (23°c)	48 (100)	--	ft·lb/in² (kJ/m²)	
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Ball Indentation Hardness (H 358/30)	29000 (200)	--	psi (MPa)	ISO 2039-1
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load				
66 Psi (0.45 Mpa), Unannealed	410 (210)	--	°F (°C)	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	248 (120)	--	°F (°C)	ISO 75-2/Af
Ball Pressure Test (275°f (135°c))	Pass	--		IEC 60695-10-2

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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	550	--	V	IEC 60112
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	--		
Glow Wire Flammability Index	1110 (600)	--	°F (°C)	IEC 60695-2-12

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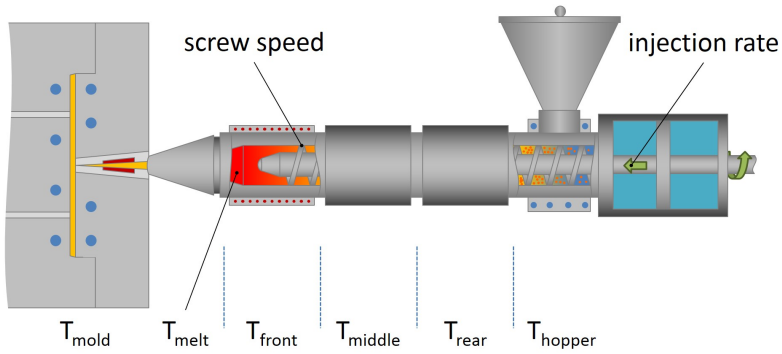

Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Processing (Melt) Temp	536 to 572 °F	280 to 300 °C
Mold Temperature	140 to 248 °F	60 to 120 °C

Notes

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