Technical Data Sheet

Schulamid 6 MV 14 K1450

Polyamide 6
LyondellBasell Industries
Engineering Plastics

Product Description
medium viscosity PA 6

General			
Features	• Food Contact Acceptable	• Lubricated	• Medium Viscosity
Processing Method	• Injection Molding		

Physical	Dry	Conditioned	Unit	Test Method
Density	1.13	--	g/cm³	ISO 1183/A
Viscosity Number	145	--	cm³/g	ISO 307
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	406000 (2800)	218000 (1500)	psi (MPa)	ISO 527-1/1A/1
Tensile Stress (Yield)	12300 (85.0)	7250 (50.0)	psi (MPa)	ISO 527-2/1A/50
Tensile Strain (Yield)	3.5	18	%	ISO 527-2/1A/50
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-22°f (-30°c)	2.9 (6.0)	--	ft·lb/in² (kJ/m²)	
73°f (23°c)	2.9 (6.0)	11 (24)	ft·lb/in² (kJ/m²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°f (-30°c)	No Break	No Break		
73°f (23°c)	No Break	No Break		
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Ball Indentation Hardness (H 358/30)	20300 (140)	--	psi (MPa)	ISO 2039-1
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load				
66 Psi (0.45 Mpa), Unannealed	374 (190)	--	°F (°C)	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	158 (70.0)	--	°F (°C)	ISO 75-2/Af
Vicat Softening Temperature				
--	383 (195)	--	°F (°C)	ISO 306/B50
--	401 (205)	--	°F (°C)	ISO 306/A120
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	600	--	V	IEC 60112

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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

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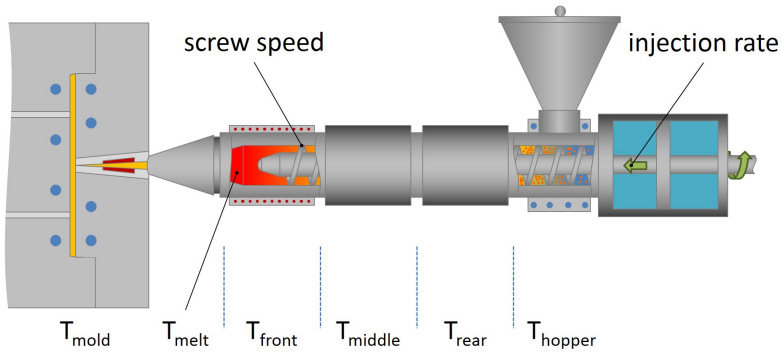

Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.04 to 0.10 %	0.04 to 0.10 %
Processing (Melt) Temp	482 to 518 °F	250 to 270 °C
Mold Temperature	140 to 194 °F	60 to 90 °C