Technical Data Sheet

Polyman (ABS) K1836

Acrylonitrile Butadiene Styrene
LyondellBasell Industries
Engineering Plastics

Product Description
Easy flow medium impact ABS grade

General		
Features	• Good Flow	• Medium Impact Resistance
Processing Method	• Injection Molding	
Part Marking Code (ISO 11469)	• >ABS<	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.10 g/cm³	1.10 g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (220°c/10.0 Kg)	35 cm³/10min	35 cm³/10min	ISO 1133
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Modulus	363000 psi	2500 MPa	ISO 527-1/1A/1
Tensile Stress (Yield)	6090 psi	42.0 MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	2.2 %	2.2 %	ISO 527-2/1A/50
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Charpy Notched Impact Strength (73°f (23°c))	7.1 ft·lb/in²	15 kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
73°f (23°c)	No Break	No Break	
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Deflection Temperature Under Load			ISO 75-2/Af
264 Psi (1.8 Mpa), Unannealed	171 °F	77.0 °C	
Vicat Softening Temperature	203 °F	95.0 °C	ISO 306/B50
Flammability	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Burning Rate			
0.0787 In (2.00 Mm)	< 3.9 in/min	< 100 mm/min	ISO 3795
0.0787 In (2.00 Mm)	< 3.9 in/min	< 100 mm/min	FMVSS 302

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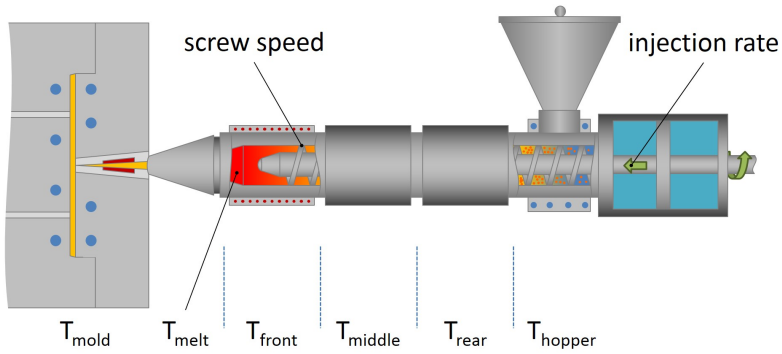

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Processing (Melt) Temp	446 to 482 °F	230 to 250 °C
Mold Temperature	86 to 176 °F	30 to 80 °C

Notes

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