

Technical Data Sheet

Polyvin PVC 8301

Flexible Polyvinyl Chloride

LyondellBasell Industries

Engineering Plastics

Product Description

Flexible PVC formulation for interior molding applications requiring good dry touch, excellent weathering and ease of processing.

General

Processing Method • Extrusion • Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.38	1.38 g/cm ³	ASTM D792
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ¹ (Yield)	1500 psi	10.3 MPa	ASTM D638
Tensile Elongation ¹ (Break)	> 230 %	> 230 %	ASTM D638
Elastomers	Nominal Value (English)	Nominal Value (SI)	Test Method
Tear Strength ²	> 99.9 lbf/in	> 17.5 kN/m	ASTM D624
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore A)	83	83	ASTM D2240

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Injection	Nominal Value (English)	Nominal Value (SI)
Rear Temperature	350 °F	177 °C
Middle Temperature	360 °F	182 °C
Front Temperature	370 °F	188 °C
Nozzle Temperature	365 °F	185 °C
Processing (Melt) Temp	365 °F	185 °C
Mold Temperature	70 to 90 °F	21 to 32 °C
Injection Pressure	200 to 600 psi	1.38 to 4.14 MPa
Back Pressure	25.0 to 50.0 psi	0.172 to 0.345 MPa
Screw Speed	40 to 70 rpm	40 to 70 rpm
Cushion	0.250 in	6.35 mm

Notes

¹ Type IV, 20 in/min (510 mm/min)

² Die C, 2.0 in/min (51 mm/min)

Notes

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