



Novablend™ 9562

Polyvinyl Chloride Alloy

Key Characteristics

Product Description			
Custom Molding			
General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• General Purpose	• High Impact Resistance	• Medium Flow
Uses	• Construction Applications	• General Purpose	• Outdoor Applications
Appearance	• Opaque		
Forms	• Pellets		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity ²	1.20	1.20	ASTM D792
Spiral Flow	23.0 in	58.4 cm	
Molding Shrinkage - Flow	2.0E-3 to 5.0E-3 in/in	0.20 to 0.50 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ³	325000 psi	2240 MPa	ASTM D638
Tensile Strength ³ (Yield)	6700 psi	46.2 MPa	ASTM D638
Tensile Elongation ³ (Break)	50 %	50 %	ASTM D638
Flexural Modulus	330000 psi	2280 MPa	ASTM D790
Flexural Strength	9900 psi	68.3 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256A
0°F (-18°C), 0.125 in (3.18 mm), Injection Molded	2.5 ft·lb/in	130 J/m	
32°F (0°C), 0.125 in (3.18 mm), Injection Molded	12 ft·lb/in	640 J/m	
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	18 ft·lb/in	960 J/m	
Drop Impact Resistance ^{4, 5}			ASTM D4226
73°F (23°C), 0.125 in (3.18 mm)	2.00 in·lb/mil	89.0 J/cm	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D, 10 sec)	79	79	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed, 0.125 in (3.18 mm), Injection Molded	171 °F	77.3 °C	
Deflection Temperature Under Load ⁶			ASTM D648
66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm)	180 °F	82.0 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm), Injection Molded	148 °F	64.4 °C	

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Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load ⁶ 264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm)	165 °F	74.1 °C	ASTM D648
CLTE - Flow	8.0E-5 in/in/°F	1.4E-4 cm/cm/°C	ASTM D696

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	390 to 410 °F	199 to 210 °C

Notes

¹ Typical values are not to be construed as specifications.

² Properties reported for Natural color.

³ Type I, 2.0 in/min (51 mm/min)

⁴ Procedure A, 1/8-in. conical

⁵ No brittle breaks. MFE/Avg. thk. > 264/0.125

⁶ Injection Molded

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