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	

Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load [6]			ASTM D648
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm)	165 °F	74.1 °C	
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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