

VELVEX™ 5250 SC

Reinforced Elastomer Resin

Overview

VELVEX™ 5250 is a reinforced elastomer/ PP compound which provides a unique property balance of good stiffness, impact and high heat resistance in combination with a pleasant soft touch, low CLTE and easy processing. Very uniform low gloss is achieved in combination with outstanding scratch and mar resistance. VELVEX™ 5250 is either available:

- as factory coloured VELVEX™ 5250 ESU or
- as natural VELVEX™ 5250 SC Natural in combination with the colour concentrate CC REUV4%.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.07 g/cm ³	1.07 g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12 g/10 min	12 g/10 min	ISO 1133
Molding Shrinkage	2.0E-3 to 6.0E-3 in/in	0.20 to 0.60 %	ISO 294-4
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus (73°F (23°C))	421000 psi	2900 MPa	ISO 527-2
Tensile Stress (Yield, 73°F (23°C))	6530 psi	45.0 MPa	ISO 527-2
Tensile Strain (Break, 73°F (23°C))	9.0 %	9.0 %	ISO 527-2
Flexural Modulus			ISO 178
73°F (23°C)	450000 psi	3100 MPa	
73°F (23°C) ¹	261000 psi	1800 MPa	
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	5.2 ft-lb/in ²	11 kJ/m ²	
73°F (23°C)	16 ft-lb/in ²	34 kJ/m ²	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	185 °F	85.0 °C	
Vicat Softening Temperature	293 °F	145 °C	ISO 306/A120
CLTE - Flow	2.5E-5 in/in/°F	4.5E-5 cm/cm/°C	ASTM D696

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

¹ Average on molded plaque



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