



VERSITM 3300 Elastomer

Overview

VERSITM 3300 Elastomer can be used for stretch cling, elastic film and as a blend component in thermoplastic elastomers and thermoplastic olefins. It is a particularly good choice for cast stretch film sealants.

When used as cling additive the grade generates higher unstretched film cling levels and can be used in blends at lower addition levels than needed with VLDPE. It gives consistent performance in hot and cold conditions, retains its characteristics over extended periods and delivers lower noise levels.

Complies with:

- U.S. FDA FCN 909
- U.S. FDA 21 CFR 175.105(c)(5)
- EU, No 10/2011
- Consult the regulations for complete details.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.867 g/cm ³	0.867 g/cm ³	ASTM D792
Melt Mass-Flow Rate (230°C/2.16 kg)	8.0 g/10 min	8.0 g/10 min	ASTM D1238
Total Crystallinity	11 %	11 %	Dow Method
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Break, Compression Molded)	2840 psi	19.6 MPa	ASTM D638
Tensile Elongation ¹			ASTM D638
Break, Compression Molded	750 %	750 %	
Flexural Modulus - 1% Secant (Compression Molded)	5640 psi	38.9 MPa	ASTM D790
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness ²			ASTM D2240
Shore A, Compression Molded	85	85	
Shore D, Compression Molded	31	31	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Glass Transition Temperature	-16.6 °F	-27.0 °C	Dow Method
Vicat Softening Temperature	108 °F	42.0 °C	ASTM D1525
Melting Temperature (DSC)	144 °F	62.0 °C	Dow Method
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gardner Gloss			ASTM D523
20°, 39.4 mil (1000 µm), Compression Molded	107	107	
60°, 39.4 mil (1000 µm), Compression Molded	126	126	
Haze (78.7 mil (2000 µm), Injection Molded)	4.00 %	4.00 %	ASTM D1003

Notes

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

¹ 2.0 in/min (50 mm/min)

² Hardness after 10 seconds.

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