



SEQUEL[®] E5800

DESCRIPTION:

SEQUEL[®] E5800 thermoplastic polyolefin (TPO) is designed for thermoformed exterior and interior cost-sensitive applications that require improved stiffness & excellent dimensional stability while maintaining 0°C ductility. This extrusion-grade material can be readily processed into a variety of products and has excellent chemical resistance. This material is supplied with UV stabilization.

PROPERTY	TYPICAL VALUE	UNITS	Test Method
PHYSICAL			
Hardness	70	Shore D	ISO 868
Specific Gravity	1.13	-	ISO 1183
Melt Flow Rate (230 °C, 2.16 kg load)	0.5	g/10 min.	ISO 1133 <i>Condition M</i>
Shrink	0.8 - 1.1	%	ASTM D955
MECHANICAL			
Flexural Modulus	325,000 (2,240)	psi (MPa)	ISO 178
Tensile Strength @ Yield	3,775 (26)	psi (MPa)	ISO 527-2/1A/50
Elongation @ Break	60	%	ISO 527-2/1A/50
Gardner Impact @ 23°C @ 0°C @ -15°C	>320 (36) 284 (32) 160 (18)	in*lb (J)	ASTM D5420
Multi-Axial Impact @ 0°C (2.2 m/s) Ultimate Energy Failure Mode	222 (25) 100% Ductile	in*lb (J) -	ASTM D3763
THERMAL			
HDT @ 66 psi (0.45 MPa) @ 264 psi (1.8 MPa)	246 (119) 147 (64)	°F (°C)	ISO 75 <i>annealed</i>
CLTE (-30°C to 80°C)	3.0 x 10 ⁻⁵ (5.5 x 10 ⁻⁵)	in/in/°F (mm/mm/°C)	ASTM D696 <i>modified</i>

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Solvay
Engineered Polymers, Inc.
1200 Harmon Road
Auburn Hills, MI 48326
Phone: (248) 391-9500
Fax: (248) 391-9501

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