

Solvay Engineered Polymers SEQUEL® 1823 Engineered Polyolefin (discontinued **)

Category : Polymer , Thermoplastic , Polyolefin

Material Notes:

Description: SEQUEL® 1823 engineered polyolefin is designed for automotive exterior applications that require energy management combined with excellent ductility and stiffness over a broad temperature range. This material provides excellent processability and dimensional stability. Applications: Body panels, bumper beams, energy absorbers, and brackets Information provided by Solvay Engineered Polymers. LyondellBasell acquired Solvay Engineered Polymers in 2008. This grade is not part of the current LyondellBasell product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Engineered-Polymers-SEQUEL-1823-Engineered-Polyolefin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 g/cc	ISO 1183
Linear Mold Shrinkage	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	as molded; ISO 294
Melt Flow	20 g/10 min	20 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	19.0 MPa	2760 psi	150x10x4 mm specimen, 50 mm/min; ISO 527-1/527-2
Flexural Modulus	1.74 GPa	252 ksi	80x10x4 mm specimen, 2 mm/min; ISO 178
Impact Test	25.0 J	18.4 ft-lb	multiaxial, 2.2 m/s; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear	45.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	25.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ASTM E228
	@Temperature -30.0 - 80.0 $^\circ\text{C}$	@Temperature -22.0 - 176 $^\circ\text{F}$	

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