

LyondellBasell SEQUEL[®] 1825 Engineered Polyolefin

Category : Polymer , Thermoplastic , Polyolefin

Material Notes:

Description: SEQUEL[®] 1825 engineered polyolefin is designed for automotive applications that require energy management combined with ductility and a balance of stiffness and impact resistance 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.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-SEQUEL-1825-Engineered-Polyolefin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ISO 1183
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	as molded; ISO 294
Melt Flow	15 g/10 min	15 g/10 min	Condition L; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	18.0 MPa	2610 psi	150x10x4 mm specimen, 50 mm/min; ISO 527-1/527-2
Flexural Modulus	2.03 GPa	294 ksi	80x10x4 mm specimen, 2 mm/min; ISO 178
Impact Test	15.0 J	11.1 ft-lb	multiaxial, 2.2 m/s; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear	54.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	30.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	

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