



SEQUEL 1825

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

PROPERTY	TYPICAL VALUE	UNITS	TEST METHOD
PHYSICAL			
Specific Gravity	1.16	---	ISO 1183
Melt Flow Rate	15	dg/min	ISO 1133
Mold Shrinkage, as molded	5.0	mil/in	ISO 2577
Mold Shrinkage, after bake	6.5	mil/in	ISO 2577
Hardness	66	Shore D	ISO 868
MECHANICAL			
Tensile Strength @ Yield	19.3	MPa	ISO 527-1
Tensile Elongation @ Yield	8	%	ISO 527-1
Tensile Modulus	2800	MPa	ISO 527-1
Flexural Modulus	2570	MPa	ISO 178
Flexural Strength	30.1	MPa	ISO 178
Notched Izod Impact, at +23°C	PB	kJ/m ²	ASTM D 256
Notched Izod Impact, at -30°C	5.5	kJ/m ²	ASTM D 256
Gardner Impact, at +23°C	20.6	J	ASTM D 3029
Gardner Impact, at -30°C	22.4	J	ASTM D 3029
THERMAL			
DTUL			
@ 0.45 MPa	112	°C	ISO 75
@ 1.8 MPa	62	°C	ISO 75
CLTE, -30°C to 80°C, transverse	4.5 10 ⁻⁵	mm/mm/°C	ASTM D 696

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