Product Information

ROHACRYL™ SW

ROHACRYL™ is an exciting new product from the Performance Foams business of Evonik Operations GmbH. Based on acrylate chemistry, this environmentally friendly core material solution is thermally stable and features excellent mechanical performance.

A NEW LIGHTWEIGHT CORE

ROHACRYL™ SW is a closed-cell foam with a fine, homogeneous cell structure that is free of harmful small cell size makes it possible to keep resin uptake at the surface of the foam core to a strict minimum.

This novel rigid foam product is ideal for lightweight sandwich construction in a wide variety of applications in industries like wind energy, sports equipment, lifestyle, marine and sub-sea, as well as automotive and industrial markets.

ROHACRYL™ SW core is easy to thermoform and can be machined using standard CNC equipment.

BENEFITS OF ROHACRYL™

Finished part mass can be reduced due to significantly lower resin uptake compared to established foam core materials. Furthermore, the core material shows excellent mechanical properties while the core density is kept to a minimum.

High thermal stability enables short cycle times in production processes, like vacuum assisted resin infusion (VARI).

ROHACRYL exhibits **superior fatigue behavior** which extends the final parts lifetime.
The combination of benefits results in increased **overall cost savings** in finished part production.

ROHACRYL™ SW MECHANICAL PROPERTIES

Property	Test Method	Unit	60 SW	80 SW	100 SW
Density	ASTM 1622	kg/m³ lbs/ft³	60 3.75	80 5.00	100 6.25
Compressive Strength	ASTM 1621	MPa psi	0.80 115	1.40 200	2.00 290
Compressive Modulus	ASTM 1621	MPa psi	40 5,800	85 10,150	105 15,230
Tensile Strength	ASTM D638	MPa psi	1.60 230	2.20 320	2.79 405
Tensile Modulus	ASTM D638	MPa psi	75 10,150	98 14,200	127 18,400
Shear Elongation at Break	ASTM C273	%	6	6	6
Shear Strength	ASTM C273	MPa psi	0.75 110	1.23 175	1.70 245
Shear Modulus	ASTM C273	MPa psi	25 3,600	38 5,500	52 7,500

Technical data values presented above are on an initial set of test data for nominal densities, subject to normal manufacturing variations. Due to the limited data set, the presented values listed for ROHACRYL SW are preliminary. Currently, large-scale testing is in progress. All ROHACRYL™ products are closed-cell rigid foams based on acrylate chemistry and contain no CFC's.

INTERESTED IN ROHACRYL™ FOAM?

Speak with your Performance Foams representative or contact :

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