Spray-Applied Open Cell Polyurethane Foam

DmjSpray-501F is a two-components, spray-applied, open-cell polyurethane foam system. this product is full water-blown foam system with good performance of low density ,open cell and fire resistance class.during spray process in site, the breathing small open cell filled with air,without produce toxic gas to destroy the ozone layer ,which is environment friendly,low carbon new construction material.with high performance of thermal insulation,moisture & vapor barrier,sound absorption.

Physical Properties

Description	ISOCYANATE (MDI)	BLEND POLYOLS(DmjSpray-501F)
Appearance	Brown liquid	Light yellow to brown transparent liquid
Hydroxyl value	N/A	100-200 mgKOH/g
Viscosity	200-250 mPa.S/20℃(68℉)	200-300 mPa.S/20℃(68℉)
Specific gravity	1.20-1.25 g/ml (20℃(68℉))	1.05-1.10 g/ml (20℃(68℉))

Reactivity Properties

Material temperature: 20℃(68℉)) , the actual value varied as per processing condition

POL/ISO Ratio	by volume	1/1
Cream Time	S	3-5
Gel Time	S	6-10
Free Density	kg/m³ lb /ft ³	7-9 (0.45-0.55lb /ft ³)

In-place Foam Performances

Items	Metric Unit	Index		
Spray Density	GB/T6343-2009	≥8-12kg/m³	ASTM D 1622	≥0.60
Compressive Strength	GB/T8813-2008	≥13KPa	ASTM D 1621	≥1.80PSI
K-Factor(Initial R Value)	GB/T10295-2008	≤40mW/(m.K)	ASTM C 518	≥3.6 inch
Tensile Strength	GB/T 9641-1988	≥33KPa	ASTM D 1623	≥4.80PSI
Open-cell Rate	GB/T10799-2008	≥99%	ASTM D 1940	≥99%
Sound Absorption Rate	GB/T18696-2-2002	0.43%	ISO10534-2	0.43%
(800HZ-6300HZ,average)	GB 8811-2008	0.1%	ASTM D 2126	0.1%
Dimensional Stability -30℃*24h		0.9%		0.9%
80℃*48h		2.4%		2.4%
70℃*95%RH*48h	QB/T2411 -1998	793	ASTM E96	14.41
Water vapor permeability	GB/T2406 -1993		ASTM D 2863-13	22.5%
Oxygen index				

The data provided above are typical value, which are tested by our company. For our company's products, the data included in the law do not have any constraints.