

# Spray Polyurethane Foam Systems

Typical Formula	Spray System HPSP3040	Water Based Spray HP-SP-W-3040	Water Based Low Density HP-SP-3040(WLD)	Spray PIR HP-SP-PIR-3040(B2)	Open Cell Form HP-SPWOC-3040
<b>Property</b>					
Viscosity at 25°C cps	200 ± 50	350 ± 50	350 ± 50	200 ± 50	500 ± 50
Water Content (%)	1.00 ± 0.10	1.50 ± 0.20	1.80 ± 0.10	Nil	17.7 ± 0.10
<b>Machine Mix Reactivity</b>					
Component Temperature, 0°C	35	35	35	35	35
ISO/Blended Polyol	100/100	100/100	100/100 (1:1.1)	100/100	100/100
Cream Time, sec	< 5	< 5	< 5	< 5	< 5
Gel Time, sec	<10	<12	<10	<10	<10
Free Rise Density` kg/m <sup>3</sup>	30 ± 1.0	40 ± 2.0	32 ± 1.0	38 ± 2.0	10 ± 2.0
<b>Typical Physical Properties</b>					
Core Density (kg/m <sup>3</sup> )	45 ± 2.0	53 ± 2.0	45 ± 2.0	55 ± 2.0	10 ± 2.0
Compressive Strength (kPa)	250 ± 50	300 ± 50	250 ± 50	300 ± 50	--
Dimensional Stability (-30°C, 48hr), %	<1	<1	<1	<1	<3.8
@23 °C Thermal Conductivity (mW/m.K)	21.0 ± 0.50	25.0 ± 0.50	25.0 ± 0.50	21.0 ± 0.50	26.0 ± 0.50
Flammability	B3	B3	B3	B2	B3
R Value (m <sup>2</sup> K/W)	50 mm	2.294	2.000	2.000	1.667
	100 mm	4.587	4.000	4.000	3.333

