



POLY- 4045 / ISO-2019

HANDLING: Safety Shoe Sole PU system

	MATERIAL A	MATERIAL B	
	POLY-4045	ISO-2019	
<i>Parameter</i>	<i>Value</i>	<i>Value</i>	<i>Unit</i>
Apperance at room temperature	Yellow Waxy	Yellow transparent	-
Melting point	10°C	20°C	°C
Solid material melting time	0-1	0-1	hours
Viscosity at 35 ° C	1500	400	mPa·s
Density at working temperature	1.1	1.05	g/cm³
Mixing ratio	100	65-70	V/m
Working temperature	45	40	°C
Moulds temperature	45-55		°C
Demoulding time	180-240		second
Reaction performance (Cream Time/Thread Time)	7-9		second
Free Density	0.25-0.55		g/cm³

MECHANICAL PERFORMANCE OF THE FOAM

<i>Parameter</i>	<i>Value</i>	<i>Unit</i>
Density(UNI 10902)	0.38-1.1	g/cm³
Hardness (UNI EN ISO 868)	45-60	Shore A
Elogation at break(UNI EN 12803)	500	%
Tensile strength at break (UNI 12803)	9	MPa
Tear Resistance(UNI EN 12771)	30	N/mm
Abrasion resistance (UNI EN 12770)	150	mg
Flexural fatigue resistance(UNI EN ISO 17707)	100000	Flex time
Test temperature:+23°C without original hole		

*It is based on test results from samples taken on 10mm plates using Derkim Polyurethane test methods in our laboratories.

*It is recommended that our products be stored at room temperature in places that are not exposed to direct sunlight and rain.