

Product Name

EMPEYOL WSF 300/3 (UNITSOLE)

Product Description

EMPEYOL WSF 300/3 is an eco-friendly formulated polyether polyol to be used in combination with suitable isocyanate for the production of microcellular polyurethane elastomers for SHOESOLE application.

Properties of Polyol

Characteristics	Unit	Specification
Appearance	-	White to Pale yellow liquid
Viscosity @25°C	cps	1000 ± 100
Density @25°C	g/cc	1.020 ± 0.020

Recommended Process Conditions in Bench Mixer at 25°C

Process Parameters	Unit	Specification
Mixing ratio (Polyol : Isocyanate)	-	100 : (70-80)
Polyol Temperature	°C	25 ± 02
MDI Temperature	°C	25 ± 02
Cream time	sec	13+2
Gel time	sec	26+2
Tack free time	sec	35+5
Pinch time	sec	65-70
Free rise density	Kg/m ³	300 ± 20
Demold time	sec	210

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Properties of foam

Properties	Test Method	Unit	Specification
Molded Density		Kg/m ³	600 ± 20
Shore A	SATRA TM 205:2017	No unit	55 – 60
Tensile strength	SATRA TM 137:1995	N/mm ²	3.0 (Minimum)
Tear Strength	SATRA TM 65 :1992	N/mm	2.5 (Minimum)
Elongation	SATRA TM 137:1995	%	250 (Minimum)
Abrasion Resistance	SATRA TM 174:1994	mm ³	500 (Maximum)
Bata belt flex test	SATRA TM 133:1993	Cycles	To pass 50000

Packaging Size

200 kg

Shelf-Life

6 Months

**Storage
and
Handling**

EMPEYOL WSF 300/3 and EMPEYONATE ISEMPP205 should be stored in tightly closed containers at temperature between 20°C and 30°C and shouldnot be exposed to direct sunlight.

**Health and
Safety Advice**

EMPEYOL WSF 300/3 polyol should present no unusual health problems when used in manufacturing operations where satisfactory standards of personal and industrial hygiene are maintained. Precautions should be taken to avoid exposure to the eye or prolonged contact with the skin.

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