

TECHNICAL BULLETIN

LIQUID NOFIA OL1001A POLYOL MASTERBATCH SOLUTION FOR POLYURETHANES

Overview

Nofia OL1001 is a flame retardant (FR) polyol oligomer that can be reacted into the polyurethane (PU) backbone via reaction with isocyanates. It is supplied in both pellet and fine powder forms. For applications that require the use of liquids, a liquid polyol solution OL1001A containing 45 wt% Nofia OL1001 can be prepared.

Preparation of Liquid Nofia OL1001A Polyol Solution:

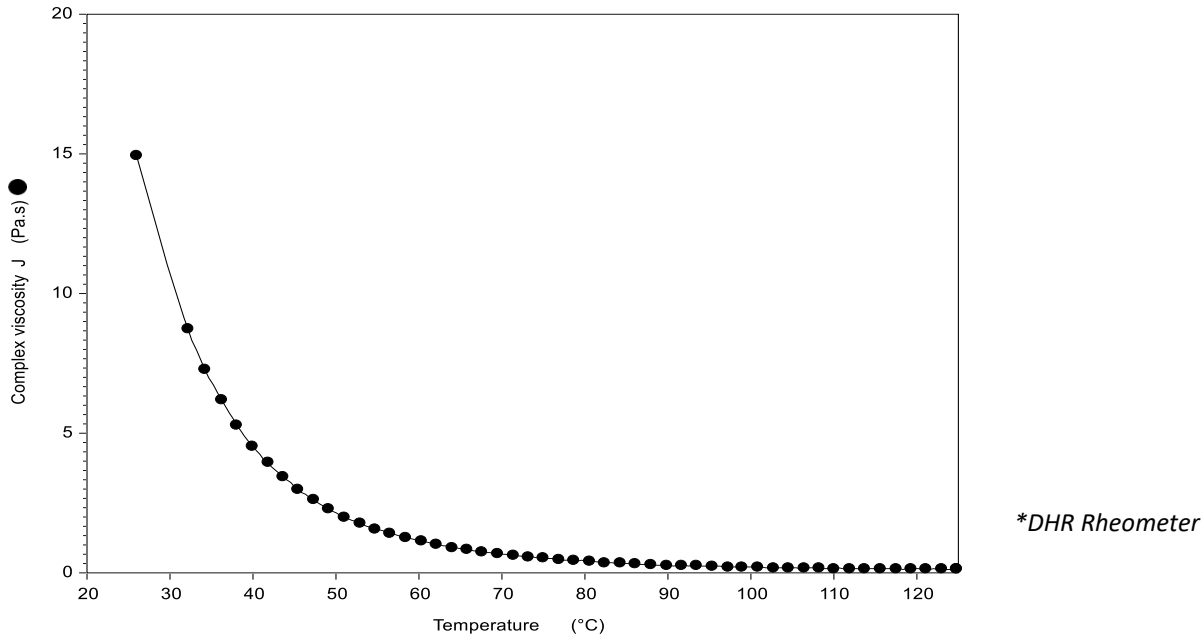
A mixture of the dissolving polyol (Poly-G 55-56) and ethylene glycol is heated to 60°C and Nofia OL1001 powder is slowly added to the mixture. After complete addition of the OL1001, the mixture stirred for 2-3 hours to fully dissolve. The solution ingredients are provided below.

	Loading wt%	Viscosity 25°C (mPa.s)	OH number (mg KOH/g)	Eq Weight (g/eq.)
Nofia OL1001	45	-	77	729
Poly-G 55-56*	45	375	56	1002
Ethylene Glycol	10	17	1808	31

*Supplied by Monument Chemical

Liquid Nofia OL1001A is a clear liquid. Stable for >12 months

Viscosity – Temperature Profile of Liquid Nofia OL1001A*



	Temp (°C)	Viscosity (Pa.s)	Viscosity (cP)
45% Nofia OL1001 + 45% Poly-G 55-56 + 10% ethylene glycol	25	18.3	18,300
	40	4.5	4,500

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