



Photo of Purinova's  
R&D department

## *New versatile Polyester Polyol for viscoelastic foam*

*Purinova will provide the correct type  
of polyurethane system for the viscoelastic foam  
technology of your choice!*

## *Polios NT170LV specification*

Polios NT170LV is new versatile polyester polyol, that contain high amount: 67% of recycle and renewable content (PN-EN ISO 14021:2016)

Hydroxyl value [mg KOH/g]	160-180
Acid value [mg KOH/g]	Max. 1,5
Water content [%]	Max. 0,1
Viscosity 25 °C [mPas]	500-1000
Color	brown
Recycled content (pre consumer) [%]	62
Renewable content [%]	5

Tab. 1 Polios NT170LV specification

## Polios NT170LV advantages in viscoelastic foam application:

- high recyclable and renewable content allow getting more environmentally friendly products
- used as a partial replacement for standard polyester and polyether polyols, it does not require major changes in the foam formulation
- tested in viscoelastic foam according to PN-EN 16000-9:2009 with positive results: low VOC emission in 28 days test

## Base viscoelastic foam formulation with Polios NT170LV.

*Recommended amount of Polios NT170LV in the viscoelastic formulation is 20-50 parts. It can replace one or more of the standard polyols in formulation:*

Component	Content in the formulation (pphp)								
Polyether Polyol OH-250	70	50	60	40	50	30	40	20	30
Polyether Polyol OH-28	20	20	10	20	10	20	10	20	10
Polyether Polyol OH-38	10	10	10	10	10	10	10	10	10
<b>POLIOS NT170LV</b>	-	<b>20</b>	<b>20</b>	<b>30</b>	<b>30</b>	<b>40</b>	<b>40</b>	<b>50</b>	<b>50</b>
pMDI (NCO- 31) index 83	51,57	50,03	53,83	50,19	53,98	50,34	54,13	50,50	54,29
Water	2,2	2,4	2,4	2,6	2,6	2,8	2,8	3	3
Amine catalyst Dabco 33-LV	0,23	0,23	0,23	0,23	0,23	0,23	0,23	0,23	0,23
Amine catalyst Dabco BL-11	0,23	0,23	0,23	0,23	0,23	0,23	0,23	0,23	0,23
Silicone	0,65	0,65	0,65	0,65	0,65	0,65	0,65	0,65	0,65
Cell opener	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5

Tab. 2. Base viscoelastic foam formulation with Polios NT170LV.





# Quality you can trust

Photo of Purinova factory



No matter what you choose  
Purinova has a solution



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