

## Technical Data Sheet: Neuthane 3100DV Series

**MDI – PTMEG Ether Rotational Casting System** 

v2 18 October 2019

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## Neuthane 3100DV - MDI - PTMEG Ether Rotational Casting System

Properties	Processing	Special Considerations
The Neuthane 3100DV series are high performance MDI – PTMEG ether rotational casting systems designed to produce roller coverings for use in arduous application areas. They offer: • a high level of physical properties • very good dynamic performance • good hydrolysis resistance • non MOCA curatives • processing without moulds • room temperature curing <b>Typical Applications</b> • Steel mill rollers • paper mill rollers	<ul> <li>Machine Dispensing</li> <li>Melt prepolymer at 50-70°C for 12-24 hours</li> <li>Heat the prepolymer and curative to the</li> </ul>	<ul> <li>Part used containers should be flushed with dry nitrogen and resealed immediately after use</li> <li>To prevent de-lamination, subsequent layers should be applied within 30 minutes</li> </ul>
COST PROCESSING ABRASION	DYNAMIC RESILIENCE SOLVENT	HUMID/WET TEMPERATURE UV STABILITY
Key Excellent / Good	Good / Average	Average / Poor

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Neuthane		3100DV
Curative		3193DV
Mix Ratio: Curative per 100 Parts Resin	by weight	72
Resin Temperature	°C	50
Curative Temperature	°C	25
Recommended Roller Temperature	°C	Room Temperature
Viscosity @ 50°C (N3100DV) (Viscosity vs. Temp Graphs available on request)	cps	1125
Pot life (on a 500g mix)	Seconds	10-15
Recommended Cure Temperature / Time	°C / hrs	Room Temperature / 48

Hardness	DIN 2240-91	Shore A	93
	DIN 2240-91	Shore D	-
100% Modulus	BS 903 Pt A2 - ISO 37	lb/in² (Mpa)	2150 (14.8)
300% Modulus	BS 903 Pt A2 - ISO 37	lb/in² (Mpa)	6150 (42.35)
Tensile Strength	BS 903 Pt A2 - ISO 37	lb/in² (Mpa)	6525 (44.93)
Elongation at Break	BS 903 Pt A2 - ISO 37	%	310
Tear Strength	BS 903 Pt A3 - ISO 34-1	lb/in (KN/m)	405 (70.9)
Compression Set	BS903 Pt A6 - ISO 815	%	-
Abrasion loss	DIN 53516	mm <sup>3</sup>	-
Resilience	ASTM D 2632-92	%	-
Specific Gravity		g/cm³	1.09

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