



Technical Data Sheets Introduction

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Neuthane Polyurethane Systems

Introduction	Quality	Using this Folder			
<p>The extensive range of Neuthane polyurethane systems and ancillary products is designed to meet most cost-performance criteria within a hardness range from 5 Shore A to 85 Shore D.</p> <p>The wide choice of chemistries available includes aliphatic and aromatic isocyanates combined with ethers (PTMEG and PPG) or esters (conventional and caprolactone) allowing the user to optimise properties to best suit the application.</p> <p>In addition to the range of chemistries available, there are, in many cases, choices of grades giving different process-demould characteristics.</p> <p>The range encompasses all application methods from hand mix and machine dispensed through to rotational cast and spray.</p> <p>Notedome is extremely proud of the high level of technical support offered. This support is enhanced by experience gained during in-house casting of finished components during the period from 1979-1994</p>	<p>All members of the company are committed to exactly meeting the customer's requirements. From initial requests for quotations or samples to design, verification, validation, manufacture and dispatch this philosophy is maintained.</p> <p>This commitment is backed up by accreditation and on-going commitment to adhere to ISO9001:2015.</p> <p style="text-align: center;">Agents</p> <p>The Neuthane range is sold throughout the world via agents who have a high level of technical knowledge and can offer technical support and advice. Details of these agents are available on our website.</p> <p>Alternatively, details may be obtained by contacting us using the information below:</p> <p>Telephone: +44 (0)24 7663 5192/3 Fax : +44 (0)24 7663 5509 E-mail: sales@notedome.co.uk Website: www.notedome.com</p> <p>Technical data sheets are also available in this section of the website</p>	<p>For ease of use the format of each section within the folder is constant and consists of:</p> <p>Quick Guide to Hardness Range - shows the hardness and grades available within the chosen range</p> <p>Properties - lists the main advantages of the system and some typical proven application areas</p> <p>Processing - outlines the procedures for processing the systems (to be used in conjunction with the data sheets)</p> <p>Special Considerations - is intended to pre-empt problems that may occur during processing and is designed to ensure that the Neuthane chosen is correct for the intended application area. Possible alternatives are suggested to help with navigation through the folder</p> <p>Quick Reference Bar – at the base of the page, gives a simplified breakdown of properties, cost and process ease:</p> <div style="text-align: center;"> <table border="1" data-bbox="1541 1091 1962 1216"> <tr> <td style="background-color: #f4a460;">Excellent / Good</td> </tr> <tr> <td style="background-color: #4db8ff;">Good / Average</td> </tr> <tr> <td style="background-color: #add8e6;">Average / Poor</td> </tr> </table> </div>	Excellent / Good	Good / Average	Average / Poor
Excellent / Good					
Good / Average					
Average / Poor					

Neuthane Polyurethane Systems

Neuthane 100 & 2100 Neuthane 200 Neuthane 300	TDI – PTMEG, PTMEG/PPG & Low Odour Ether Prepolymers TDI – Ester & Caprolactone Ester Prepolymers TDI – PPG Ether Prepolymers
Neuthane 500 Neuthane 5300	Aliphatic Isocyanate – Castable Systems Aliphatic Isocyanate – Doming Systems
Neuthane 600 Neuthane 700	MDI – PTMEG Ether Prepolymers MDI – Ester Prepolymers
Neuthane 801 Neuthane 802 Neuthane 803	MDI – PTMEG Ether Quasi Systems MDI – Ester Quasi Systems MDI – PPG Quasi Systems
Neuthane 3100 Neuthane 3200	MDI – PTMEG Rotational Casting Systems MDI – Ester Rotational Casting Systems

Neuthane Polyurethane Systems

		TDI PREPOLYMERS				FULL PREPOLYMERS			MDI QUASI			COLD CAST
Neuthane Series		100	100	200	300	500	600	700	801	802AW	803	CON
Chemistry		PTMEG	PPG: PTMEG	PE	PPG	ALIP -PTMEG	MDI PTMEG	MDI: PE	PTMEG	PE	PPG	ETHER: TDI
Shore A	Shore D	MOCA	MOCA	MOCA	MOCA	VARIOUS	BDO	BDO	801ISO	802 ISOB	803 ISOD	335 CON ISO
25A												
30A				TMP / TIPA								30 CON
35A				TMP / TIPA								
40A				TMP / TIPA								40 CON
45A				TMP / TIPA						802-45AW		
50A				TMP / TIPA								50 CON
55A				TMP / TIPA					801-55	802-55AW	803-55 C26	
60A				TMP / TIPA					801-60	802-60AW	803-60 C26	60 CON
65A	20D			230**					801-65	802-65AW	803-65 C26	
70A						575/CA 575-70			801-70	801-70AW	803-70 C26	*70 CON / T357
75A		122		225		575/CA 575-75			801-75	802-75AW	803-75 C26	*75 CON / T363
80A	30D	128 (S&LV)	127	232**		575/CA 575-80	660 HR / 663 HR / 668	760 HR	801-80	802-80AW	803-80 C26	
85A		132* (S)		235	335 / 343	575/CA 575-85	674 HR	765 (HR & AW) 766	801-85	802-85AW	803-85 C26	*85 CON / T357
90A	40D	143 * (S & LV) / 155 * (S)	142 / 153	242 / 244	353	575/CA 575-90 555/CA1	675	775 HR	801-90	802-90AW	803-90 C26	
95A		163* (S)	162	254 / 255**	363 (S)	575/CA 575-95 560/CA1	695	795 (HR & AW)	801-95	802-95	803-95 C26	
100A	50D											
	60D					575/CA1						
	65D	164 LV									803-65D	
	70D											
	75D	2192 LV				595/CA1					803-75D	
	80D										803-83D	
	85D											
Key		S = Long Pot Life LV = Low Viscosity HR = High Resilience AW = Advanced Waring * = Caprolactone										

Neuthane Polyurethane Systems

	Cost	Processing	Abrasion	Dynamic	Resilience	Solvent	Humid/Wet	High Temp	UV Stability
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The following table gives an indication of the performance characteristics offered by each of the Neuthane series:

100 (TDI-PTMEG)	Good / Average	Excellent / Good	Good / Average	Good / Average	Good / Average	Good / Average	Good / Average	Average / Poor	Good / Average
100 (TDI-PPG/PTMEG)	Good / Average	Average / Poor	Good / Average	Good / Average	Average / Poor	Good / Average	Good / Average	Good / Average	Good / Average
2100 (TDI-PTMEG Low Odour)	Good / Average	Average / Poor	Average / Poor	Average / Poor	Average / Poor	Good / Average	Good / Average	Average / Poor	Good / Average
200 (TDI-Ester)	Average / Poor	Good / Average	Average / Poor	Good / Average	Good / Average	Average / Poor	Good / Average	Good / Average	Good / Average
200 (TDI-Caprolactone Ester)	Good / Average	Average / Poor	Average / Poor	Good / Average	Good / Average	Average / Poor	Good / Average	Good / Average	Good / Average
300 (TDI-PPG)	Average / Poor	Good / Average	Good / Average	Good / Average	Good / Average	Good / Average	Good / Average	Good / Average	Good / Average
500 (Aliphatic-PTMEG)	Good / Average	Average / Poor	Average / Poor	Average / Poor	Average / Poor	Good / Average	Average / Poor	Average / Poor	Average / Poor
600 (MDI-PTMEG Prepolymer)	Good / Average	Good / Average	Average / Poor	Average / Poor	Average / Poor	Good / Average	Average / Poor	Good / Average	Good / Average
700 (MDI-Ester Prepolymer)	Average / Poor	Good / Average	Average / Poor	Good / Average	Good / Average	Average / Poor	Good / Average	Good / Average	Good / Average
801 (MDI-PTMEG Quasi)	Good / Average	Good / Average	Average / Poor	Average / Poor	Average / Poor	Good / Average	Good / Average	Good / Average	Good / Average
802 (MDI-Ester Quasi)	Average / Poor	Good / Average	Average / Poor	Good / Average	Good / Average	Average / Poor	Good / Average	Good / Average	Good / Average
803 (MDI-Ester Quasi)	Average / Poor	Good / Average	Good / Average	Good / Average	Good / Average	Good / Average	Good / Average	Good / Average	Good / Average
3100 (MDI-PTMEG Rotational)	Good / Average	Average / Poor	Average / Poor	Average / Poor	Average / Poor	Good / Average	Good / Average	Good / Average	Good / Average
3200 (MDI-Ester Rotational)	Average / Poor	Average / Poor	Average / Poor	Good / Average	Good / Average	Average / Poor	Good / Average	Good / Average	Good / Average
Key	Excellent / Good			Good / Average			Average / Poor		



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