



Provisional Technical Data Sheet: **NEUTHANE DP3/3/51/5/4**

MDI – PPG Ether Quasi Fire Retardant System

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NEUTHANE DP3/3/51/5/4 - MDI – PPG Ether Fire Retardant Quasi System

Description	Preparation	Storage & Shelf Life
<p>The NEUTHANE DP3/3/51/5/4 PPG Ether Fire Retardant Quasi System is designed to offer a reasonable level of physical properties at a price advantage over MDI – PTMEG systems</p> <p>They offer:</p> <ul style="list-style-type: none"> • a reasonable level of physical properties • ease of use • low viscosity (liquid at room temperature) • low process temperatures <p>Typical Applications</p> <ul style="list-style-type: none"> • Baggage Slat • Dunnage • Non dynamic roller coverings (e.g. Conveyor rollers for the steel industry) • Scraper blades (e.g. snow plough blades) • Bump stops 	<p>Processing can be by hand or by dispensing machine</p> <p>Hand Processing</p> <ul style="list-style-type: none"> • Heat ISO and POLYOL component to 30°C • Ensure both components are completely liquid and thoroughly mixed prior to use • Add pigments and Antifoam, as applicable, to the POLYOL component whilst mixing • Add the ISO component and thoroughly mix ensuring that no unmixed material is left on the container sides (if necessary, the mix can be transferred to a second clean container and mixed again) • Remove air under vacuum • Cast into moulds, preheated to the recommended temperature • Cure as recommended 	<p>Processing</p> <ul style="list-style-type: none"> • Avoid moisture contamination of all materials • Part used containers should be flushed with dry nitrogen and resealed immediately after use • It is vital that the POLYOL component is completely liquid and thoroughly mixed prior to use • Due to the exothermic nature of the system larger mixes will have a shorter pot life <p>Storage</p> <ul style="list-style-type: none"> • It is recommended to store NEUTHANE 803ISO XP within the temperature range of 20-30 °C. At lower temperatures can deteriorate, because of the partial crystallisation of its 4,4'-methylenediphenyl diisocyanate content. At higher temperatures above 30 °C, it is not recommended since discolouration and formation of insoluble solids (dimerization) may occur which can lead to a viscosity increase and a decrease of NCO content. • <u>Recovery Procedure</u>: If partial or entire freezing occurs, it is recommended to rapidly melt out NEUTHANE 801 ISO XP at 70°C, typically for 16 hours or overnight.

COST

PROCESSING

ABRASION

DYNAMIC

RESILIENCE

SOLVENT

HUMID/WET

TEMPERATURE

UV STABILITY

Key

Excellent / Good

Good / Average

Average / Poor

NEUTHANE DP3/3/51/5/4 - MDI – PPG PPG Ether Fire Retardant Quasi System

Neuthane		DP3/3/51/5/4
Mix Ratio NEUTHANE 803ISOXP	by weight	100 Grammes
Mix Ratio NEUTHANE DP 3/3/51/5/4 Poly	by weight	118.8 Grammes
NEUTHANE 803ISOXP Temperature	°C	30
NEUTHANE DP 3/3/51/5/4 Temperature	°C	30
Recommended Mould Temperature	°C	70 - 80
Pot life (on a 500g mix)	minutes	3 - 4
Demould time	minutes	10
Recommended Cure Temperature / Time	°C / hrs	80 / 16

Hardness	DIN 2240-91	Shore A	96
	DIN 2240-91	Shore D	-
100% Modulus	BS 903 Pt A2 - ISO 37	lb/in ² (Mpa)	2115 (14.6)
300% Modulus	BS 903 Pt A2 - ISO 37	lb/in ² (Mpa)	2880 (20.0)
Tensile Strength	BS 903 Pt A2 - ISO 37	lb/in ² (Mpa)	3290 (22.7)
Elongation at Break	BS 903 Pt A2 - ISO 37	%	382
Tear (Die C)	ISO 34-1	KN/m	91
Tear (Trouser)	ISO 34-1	N/mm	26.4
Specific Gravity		g/cm ³	1.12

Information contained in the data above is, to the best of our knowledge, true and accurate. Since conditions of use are beyond our control, no warranty is given or implied in respect of any recommendations or suggestions made by ourselves, nor is freedom from patent infringement inferred.



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