MCL 202
1065
MS M239

Monsanto
CHEMICALS LTD

LOCATION	PRODUCT/~~MATERIAL~~ (Name, Type or Grade):	CODE NO.: 2071332
~~RUABON~~	AROCLOR 1242 DIELECTRIC.	DATED:
NEWPORT		SUPERSEDES: 28th Jan.1971.
~~FAWLEY~~	SAMPLE SIZE: Sample bomb.	CO-ORDINATED BY:

PROPERTY	UNRESTRICTED SALES/PURCHASING LIMITS		INTERNAL CONTROL LIMITS		METHOD
ROUTINE:					
Appearance:	Clear liquid free from suspended matter and sediment.		Clear liquid free from suspended matter and sediment.		71 - 132
	Min.	Max.	Min.	Max.	
Colour (APHA):		50		40	ASTMD1702
R.I. at 20°C.	1.6250	1.6270	1.6250	1.6270	ASTMD1807
Neutralization No.mg KOH/g.		0.01		0.010	71 - 117
Water Content, p.p.m.		30		30	ASTMD1533
Inorganic Chlorides, p.p.m.		0.05		0.05	ASTMD1821
Volume Resistivity at 100°C. at 500 volts/D.C. after one minute (ohm-cm):	2×10^{12} * Delivered in Bulk.		4×10^{12}		71 - 182
Dissipation Factor at 100°C. 50 Hz.		** 0.02 Delivered in bulk and drums		0.01	71 - 182
Permittivity at 100°C. 50 Hz.	4.70	4.90	4.70	4.90	71 - 182
Hydrolysis Stability, p.p.m. Cl.		1.0		1.0	ASTM D2441 (71-179)
*** Thermal Chemical Chloride Stability, p.p.m. Cl.				0.5	71 - 180
*** Benignus Test (if T.C.C. >0.5 ppm)			Pass		71 - 181
Density at 20°C. g/cm^3	1.380	1.390	1.380	1.390	ISO/R649 ASTM D1810
Viscosity at 20°C. (cSt.)	55	71	55	71	ASTM D445-65 (71-131)

This specification remains TENTATIVE for six months from date of issue
Thereafter, unless amended or replaced, it becomes the STANDARD specification

APPROVED BY:	APPROVED BY:	APPROVED BY:	APPROVED BY:
[signature] 1971	[signature] 19.7.71		
For PRODUCTION	For RES/TECH. RES.	For APPLIC. & SALES SERV.	For SALES, PURCHASING

DSW 329224

STLCOPCB4075932

MCL 202
1065
MS M239

Monsanto
CHEMICALS LTD

LOCATION	PRODUCT, .W MATERIAL (Name, Type or Grade):	CODE NO.: 2071332
RUABON	Page 2.	DATED:
NEWPORT		SUPERSEDES: 28th Jan.1971
FAWLEY	SAMPLE SIZE:	CO-ORDINATED BY:

PROPERTY	UNRESTRICTED SALES/PURCHASING LIMITS	INTERNAL CONTROL LIMITS	METHOD
Routine (contd.)			
Distillation Range °C.			
10%	325	325	ASTM D20-5 (71-153)
90%	360	360	
ONE PER MONTH			
Flash Pt. (COC) °C.	153	153	ASTM D92 (71-124)
Fire Pt. (COC) °C.	None to boiling point.	None to boiling point.	ASTM D92
Pour Point °C.	- 18	- 18	ASTM D97-6

NOTES:

* For deliveries in drums over long distances relaxed to 1×10^{12} (min.).

** For deliveries in drums over long distances relaxed to 0.04.

*** If material fails the Thermal Chemical Chloride Test at 0.5 (max.) result must be reported to M.T.S. Ruabon and Product Group, Brussels, even though the Benignus test gives a pass. The material can be released only after Marketing (Product Group) approval.

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APPROVED BY:	APPROVED BY:	APPROVED BY:	APPROVED BY:
19/7/71	19/7/71		
For PRODUCTION	For RES/TECH. RES.	For APPLIC. & SALES SERV.	For SALES, PURCHASING

DSW 329225

STLCOPCB4075933

MCL 282
1965

MS M239

Monsanto
CHEMICALS LTD

LOCATION	PRODUCT/[redacted] (Name, Type or Grade):	CODE NO.: 2071641
~~[redacted]~~	PYROCLOR 5.	DATED:
NEWPORT		SUPERSEDES:
~~[redacted]~~	SAMPLE SIZE: 1 Amber W.Q.	CO-ORDINATED BY:

PROPERTY	UNRESTRICTED SALES/PURCHASING LIMITS		INTERNAL CONTROL LIMITS		METHOD
ROUTINE:					
Appearance:	Clear mobile liquid free from any suspended matter or sediment.		Clear mobile liquid free from any suspended matter or sediment.		71 - 154
	Min.	Max.	Min.	Max.	
Colour (APHA):		150		40	ASTM D1702
R.I. at 20°C.	1.6173	1.6193	1.6173	1.6193	ASTM D1807
Density at 20°C. ($g/cm.^3$):	1.502	1.524	1.502	1.524	ASTM D1810 ISO R649
Water Content, p.p.m.		30		30	ISO R760
Inorganic Chlorides, p.p.m.		0.1		0.1	ASTM D1821
Neutralization No. mg.KOH/g.		0.01		0.010	71-117
Scavenger Content %	0.2 (approx.)		0.18	0.22	71-155A
Volume Resistivity at 100°C. and 500 volt/DC after 1 min. (ohm-cm):	1×10^{12}		1×10^{12}		71-182
Dissipation Factor at 100°C. 50 Hg.		0.05		0.05	71-182
	delivered in bulk + drums				
Dielectric Strength at 25°C.	45 KV		45 KV		IEC 156
Permittivity at 100°C. 50 Hg.	4.2	4.5	4.2	4.5	71-182
EVERY 5th LOT:					
Fire Point °C.	None to boiling point.		None to boiling point.		ASTM D92

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APPROVED BY:	APPROVED BY:	APPROVED BY:	APPROVED BY:
[signature] 1.7.71	[signature] 19/7/71		
For PRODUCTION	For RES/TECH. RES.	For APPLIC. & SALES SERV.	For SALES, PURCHASING

DSW 329226

STLCOPCB4075934

MCL 202
1965

MS M239

Monsanto
CHEMICALS LTD

LOCATION	PRODUCT/~~RAW MATERIAL~~ (Name, Type or Grade):	CODE NO.: 2071641
~~RUABON~~	Page 2.	DATED:
NEWPORT		~~SUPERSEDES~~:
~~FAWLEY~~	SAMPLE SIZE:	CO-ORDINATED BY:

PROPERTY	UNRESTRICTED SALES/PURCHASING LIMITS		INTERNAL CONTROL LIMITS		METHOD
	Min.	Max.	Min.	Max.	
ON REQUEST:					
Distillation Range °C.					71 - 153
1st Drop			200		
% below 270				35	
90% Distilled at			379	394	
Viscosity at 20°C. (cSt.)		32		32	ASTM D445
Pour Point °C.		- 30		- 30	ASTM D97
Corrosion Test:					
(1) Loss in weight:		0.0		0.0	71 - 135
(2) Change in visual appearance:		None		None	
After test Colour APHA:		200		200	ASTM D1702
Inorganic Chlorides, p.p.m.		2		2	ASTM D1821
Neutralization No. mg.KOH/g.		0.01		0.010	71 - 117

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APPROVED BY:	APPROVED BY:	APPROVED BY:	APPROVED BY:
[signature] 1.7.71	[signature] 19/7/71		
For PRODUCTION	For RES/TECH. RES.	For APPLIC. & SALES SERV.	For SALES, PURCHASING

DSW 329227

STLCOPCB4075935