Product Information

COMMERCIAL

NORYL®

Modified PPO® Resins

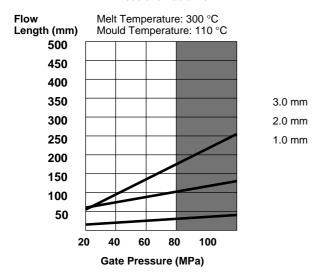
V01550

NORYL V01550 is a 15 % short glass fibre reinforced, flame retardant material with a HDT/A of 130°C according ISO 75. NORYL V01550 is V0 at 0.75 mm according UL94 and is halogen free according VDE/DIN 472 part 815. NORYL V01550 is designed for electronic and electro

technical components where dimensional stability and good surface quality is required. NORYL V01550 is available in all colours.

CALCULATED FLOW LENGTH INDICATION

Applied Moldflow's Multi-layer module for radial flow.



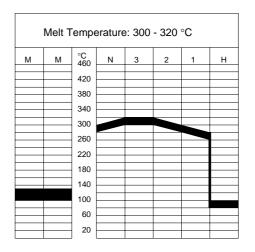
Technical support is recommended. Contact your local representative.

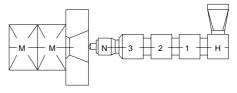
Moldflow is a registered trademark of Moldflow.

Predrying temperature/time : 110 - 120°C / 2-3 hrs

: 300 - 320 °C Recommended melt temperature Recommended mould temperature : 100 - 130 °C

PROCESSING CONDITIONS





TYPICAL PROPERTIES ¹⁾	TYPICAL VALUE	UNIT	STANDARD
PHYSICAL			
Density	1.25	g/cm³	ISO 1183
Water Absorption (23 °C / sat.) 1L	0.50	%	DIN 53495
Moisture Absorption (23 °C / 50% RH) 1L	0.06	%	DIN 53495
Mould Shrinkage on Tensile Bar, flow 2)	0.3-0.5	%	ASTM D955
RHEOLOGICAL			
Melt Viscosity, MV 300 °C / 1500 s-1	330	Pa.s	DIN 54811
Melt Volume Rate, MVR 280 °C / 5 kg	7	cm ³ /10min.	ISO 1133
Melt Volume Rate, MVR 300 °C / 5 kg	10	cm ³ /10min.	ISO 1133



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General Electric Plastics B.V. Plasticslaan 1, PO Box 117, NL - 4600 AC Bergen op Zoom The Netherlands Tel. (+31) (1640) 32911 - Fax (+31) (1640) 32940

Product Information

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NORYL®

Modified PPO® Resins

V01550

TYPICAL PROPERTIES ¹⁾	TYPICA	L VALUE	UNIT	STANDARD
MECHANICAL Hardness, H358/30 Taber Abrasion, CS-17, 1 kg Tensile Stress at break, Tensile Strain at break, Tensile Modulus, Flexural Strength at break, Flexural Modulus,	5 mm/min 5 mm/min 1 mm/min 2 mm/min 2 mm/min	130 50 50 5.0 2700 100 3000	MPa mg/1000cy MPa % MPa MPa MPa	ISO 2039/1 GE ISO 527 ISO 527 ISO 527 ISO 178 ISO 178
IMPACT Charpy Unnotched edgew. 80*10*4 Charpy Unnotched edgew. 80*10*4 Izod Impact, unnotched 80*10*4 Izod Impact, unnotched 80*10*4	s=62 mm, -30 °C	45 45 45 45	kJ/m² kJ/m² kJ/m² kJ/m²	ISO 179/1eU ISO 179/1eU ISO 180/1U ISO 180/1U
Coeff. of Lin. Therm. Exp. xflow	pact pact 4/s=100 mm	0.28 4E-5 6E-5 PASSES 145 50 50 160 150 155 145 135	W/m °C 1/°C 1/°C - °C °C °C °C °C °C °C °C °C °C °C °C °C	DIN 52612 DIN 53752 DIN 53752 IEC 335-1 IEC 335-1 UL 746B UL 746B UL 746B ISO 306 ISO 306 ISO 306 ISO 75/Be ISO 75/Ae
FLAMMABILITY 94V-0 Flame Class Rating 3) 94-5VA Flame Class Rating 3) Oxygen Index 3) Glow Wire Test, 960 °C, Passes at		0.75 3.20 32 3.2	mm mm % mm	UL 94 UL 94 ISO 4589 IEC 695-2-1
ELECTRICAL Volume Resistivity Surface Resistivity, ROA Dielectric Strength, in oil, 0.8 mm Dielectric Strength, in oil, 1.6 mm Dielectric Strength, in oil, 3.2 mm Relative Permittivity, Relative Permittivity, Dissipation Factor, Dissipation Factor, Comparative Tracking Index	50 Hz 1 MHz 50 Hz 1 MHz	1E15 >1E15 33 26.0 16.0 3.1 3.0 0.0050 0.0030 250	Ohm-m Ohm kV/mm kV/mm kV/mm - - - - V	IEC 93 IEC 93 IEC 243 IEC 243 IEC 243 IEC 250

- Typical values only. Variations within normal tolerances are possible for various colours. All values are measured at least after 48 hours storage at 23°C/50% relative humidity.
 All properties, except the melt volume rate, are measured on injection moulded samples.
 - All samples are prepared according ISO 294.

- Only typical data for material selection purposes. Not to be used for part or tool design.
- This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.
- 4) Own measurement according to UL.



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