

FIRE RETARDANT RESINS

EUROPE - 2019

| | | Halogen Free | UL94 | UK BS476 Part 7 Building & Railways | France NF 16101 Building & Railways | Germany DIN 5510 Part 2 - Railways | Europe EN 13501 Building | Europe EN 45545 Railways | Others |
|-------------------------------|--|--------------|------|-------------------------------------|-------------------------------------|------------------------------------|--------------------------|-----------------------------------|---|
| Aropol™ F 207 TPB | Clear, thixotropic, pre-accelerated resin for spray-up and hand lay-up | | | class 2 | M3 | | | | Lloyd's for Survival Craft Material ³ B2-DIN 4102. ECE R118 02 with Enguard™ GE |
| Aropol™ F 207 INF | For injection & infusion | | | class 2 | M3 | | | | Lloyd's for Survival Craft Material ³ B2-DIN 4102. ECE R118 02 with Enguard™ GE |
| Hetron™ F 195 ST | Clear resin for corrugated sheets | | | | | | Cs3d0 ² * | | Sweden: NT FIRE 006 *Cs3d0 with ATH addition |
| Derakane™ 510A-40 | Clear resin for spray-up and hand lay-up | | | class 2 | M2 ² | | | | ASTM E84: FSI<25 B1-DIN 4102 |
| Hetron™ F 240 TF / TFE | Filled, thixotropic resin for spray-up and hand lay-up | | V0 | class 1 | M2 F2 | S4 SR1 ST2 | Cs3d0 | | ASTM E84: FSI<25 |
| Hetron™ F 660 TF / TFE | Filled thixotropic resin for spray-up and hand lay-up | ● | V0 | class 2 | M1 F1 ⁴ | | | | UNI 9177 Classe 1 |
| Hetron™ F 660 TFE INF | For injection & infusion | ● | | | | S4 SR2 ST2 | | | |
| Hetron™ F 804 TF | Filled, thixotropic resin for spray-up and hand lay-up | | V0 | | M1 | S4 SR1 ST2 | | | |
| Hetron™ F 830 TE | Clear, thixotropic resin for spray-up and hand lay-up | | V0 | class 2 | M2 | | Ds3d0 | | 95/28/CEE |
| Modar™ NX 860 TF / TFE | Filled, thixotropic resins for spray-up and hand lay-up | ● | | | | | Bs2d0 | HL3/R1 ⁵ HL2/R7,R17 | ASTM E84 Class A ^{2,6} IMO FTP Code 2010 annex 1 part 2 (flooring) |
| Modar™ NX 860 TFE LS | Filled, thixotropic resins for spray-up and hand lay-up | ● | | | | | | HL2/R1, R7, R17 ⁷ | |
| Modar™ NX 801 P | Clear resin for pultrusion | ● | | | | | | | |

¹ Combined with Maxguard™ FR gelcoat | ² Indicative/INEOS internal fire tests | ³ Combined with Maxguard™ NP gelcoat | ⁴ Combined with Maxguard™ GN gelcoat

⁵ HL3/R1 with Modar™ NX 860 TF alone or in combination with Maxguard™ FRX | ⁶ Combined with Maxguard™ FR | ⁷ Combined with Maxguard™ FRX

Fire retardancy ratings herein mentioned are indicative values based on material tested in third party laboratories. These values should not be construed as guaranteed results. A large number of parameters relating to user's laminate design and manufacturing process will impact fire retardancy (amongst others: part thickness, part homogeneity, glass ratio, filler ratio, gelcoat, paint, etc.). Optimum fire retardancy can only be obtained on fully cured resins and laminates. The final part in which the resin will be used shall imperatively be tested according to relevant norms prior to full industrialization, in compliance with laws and regulations in force. It shall be the sole responsibility of the user to determine the suitability of the product for the user's specific application.

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