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FRAS 3608

FIRE RETARDANT ANTISTATIC ADDITIVE

TECHNICAL DATASHEET

FRAS 3608 is a Fire Retardant Antistatic additive for polyurethane systems. It has been formulated to produce a polyurethane which will self extinguish combined with reduced electrical resistance.

The **FRAS 3608** system has been successfully used in mining applications where the polyurethane must satisfy the following standards:

Ignitability and Flame Propagation Characteristics (Finger burn test)	AS1334.10
Oxygen Index	ISO4589-2
Electrical Resistance (Surface)	AS1334.9

Polyurethane **FRAS 3608** produces an elastomer with outstanding toughness, high elongation, and excellent tear strength and abrasion resistance.

FRAS 3608 offers advantages in that it can be readily processed and cured at room or elevated temperatures. It has been specifically designed to be liquid at ambient temperatures, permitting easy processing.

Product Specification

Appearance	Yellow to Clear Liquid
Moisture content (%)	< 0.07
Viscosity at 77°F (cps)	100 - 200

NOTE: **FRAS 3608** is moisture sensitive. Once opened, containers should be purged with nitrogen, if they are to be stored for a period of time.



This information is of general nature and is supplied without recommendation of guarantee. It does not make claim to be free from patent infringement. Properties shown are typical and do not imply specification tolerances. Era Polymers cannot accept liability for loss or damage through use. Whilst these technical details are based on expert knowledge, practical experience and laboratory testing, successful application depends upon the nature and conditions in which the products are supplied. Users must, by comprehensive testing, evaluate this product in their own application.

Processing Procedure

MIX RATIO: Adjusted in accordance to product and standard.

NOTE: When using 11 parts **FRAS 3608** with E77A, E83A or EHP85A there will be approximate hardness drop of 20 points.

The following ratio has been used successfully with Erapol EHP95 to pass the standards shown above to the conditions set out in the MDG 3608 – Non-metallic materials for use in underground coal mines.

	PART BY WEIGHT
EHP95A	100
MOCA	17.5
FRAS 3608	14

1. Carefully weigh the correct proportion of **FRAS 3608** into the Prepolymer. Mix the two components together in one container add and mix thoroughly the curative. Be careful not to entrap air whilst mixing.
2. Pour the mixed material into moulds that have been prepared with release agent, being careful to avoid trapping air.
3. Allow casting to cure before demoulding.

NOTE: **FRAS 3608** is a blend of antistatic and fire retardant additives. Therefore, rolling the pail before decanting it is recommended.