

Mudfords

SUPPLIERS TO INDUSTRY, TRANSPORT AND CONSTRUCTION

ROPE – IDENTIFICATION BY THE BURN TESTING

1. Hold a sample of the rope near a clean non-smokey flame, do the fibres melt or shrink away from the flame.
2. Move the sample into the flame, take notice of the way it burns.
3. Remove from the flame, does it continue to burn, what does the vapour smell like.
4. Extinguish any flames and examine the residue.

	DOES IT MELT	HOW DOES IT BURN	WHEN IT IS TAKEN FROM THE FLAME	HOW DOES THE VAPOUR SMELL	WHAT IS THE RESIDUE LIKE
POLYPROPYLENE	Yes	Burns easily Melted drops fall Smokey flame	Continues to burn rapidly End is a melted lump Can be stretched to a fine thread	Like hot asphalt or paraffin wax	Brown tinged yellow beads which slowly harden
POLYESTER	Yes	Does not readily ignite Melted drops fall Blackish smoke	Stops burning Small black bead on end Can be stretched to a fine thread	Like diesel or soot Slightly sweet like sealing wax	Hard beads generally black but could be white
NYLON	Yes	Does not readily ignite Yellow melted drops fall White smoke	Stops burning Small bead on end Can be stretched to a fine thread	Like celery or fishy odour	Hard yellow beads
POLYETHYLENE	Yes	Burns and curls	Continues to burn slowly End is a melted lump Cannot be stretched	Like burning paraffin wax	Doesn't bead Crushable like wax

Please note that the above results would be affected by any contamination on the fibres of the rope.

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