

Cable Reinforcement CR 1030H1 (THOR)

Description

CR 1030H1 (THOR) is a semi-rigid composite strength element consisting of E-glass with a thermoplastic resin matrix. Developed as a high modulus, non-metallic, peripheral and central strength element for fiber optic and copper cables its unique characteristics make it an ideal alternative to rigid GRP. The tensile strength remains high even when minimum cable bend diameters are exceeded unlike the failure expected of rigid GRP subjected to bend failure diameters. Offering excellent adhesion to polyethylene it is often imbedded in cable jackets to provide tensile strength or rodent resistance.



Benefits

- ▲ Consistent cable performance and reliability
- ▲ Increased productivity and reduced downtime
- ▲ Superior processing ability

Features

- ▲ Maximum adhesion to PE jacketing due to optimized impregnant design
- ▲ High dielectric strength using a nonconductive glass reinforcement
- ▲ Strong, lightweight, long-lasting cables; corrosion resistance; high modulus
- ▲ Increased product flexibility versus other available reinforcements on the market
- ▲ Produced in ISO-registered facilities to ensure product consistency and uniformity
- ▲ Available package lengths designed to match desired cable lengths to increase equipment uptime and reduced scrap levels
- ▲ Trouble-free package payoff to eliminate strand breaks and resulting unplanned equipment downtime
- ▲ Long, uninterrupted and splice-free reinforcements
- ▲ Reinforcement dimensional stability resulting in visually pleasing cables
- ▲ Firm, dense packages able to withstand high line speeds
- ▲ Proven packaging to ensure delivery and processing of damage-free packages

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Cable Reinforcement

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Product Properties

	LSL	NOM	USL
Linear Density (TEX)	930	1040	1150
Loss on Ignition (%)	26	28	30
Tensile Strength (kg _f)	55	67	-----
Elongation (%)	2.6	3.3	4.0
Youngs Modulus (Mpa)	65,000	75,000	-----
FASE @ 0.5% (kg _f)	9.6	10.8	-----
FASE @ 1% (kg _f)	20.0	21.4	-----
Strand Thickness (mm) [in]	0.49 [.018]	0.62 [.024]	0.75 [.030]
Strand Width (mm) [in]	0.90 [.035]	1.15 [.045]	1.40 [.055]
Load Bearing Area (mm ²)	-----	0.2891	-----

Package Characteristics

Product JDE Code	365160			373175			374323		
Tube Type	5019			5019			5019		
L x ID x Wall (cm)	27.9 x 7.6 x 0.64			27.9 x 7.6 x 0.64			27.9 x 7.6 x 0.64		
Traverse (cm)	25.4			25.4			25.4		
Packages per Carton*	48			36			36		
	LSL	NOM	USL	LSL	NOM	USL	LSL	NOM	USL
Metered Length (km)	13.2	13.3	13.4	26.4	26.5	26.6	22.9	23.0	23.1
Package Weight (kg)	13.2	14.0	14.8	26.6	27.6	28.6	21.3	24.5	29.5
Package Diameter (cm)	23.0	24.5	26.0	31.0	32.5	34.0	28.4	29.8	31.2
Hardness (Shore O)	70	80	90	70	80	90	70	80	90
Package Density (g/cc)	1.10	1.25	1.40	1.80	1.95	2.10	1.80	1.95	2.10

*Minimum order quantity = 1 carton

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