

## PRELIMINARY PRODUCT DATA SHEET

### 7350-92

A flexible halogen-free flame retardant thermoplastic rubber. Product is intended mainly for the extrusion of cable insulation and jacketing. It can be further crosslinked to improve properties using electron beam (EB) irradiation or silane grafting-moisture x-linking techniques.

Property	Typical Value / Test Unit	Test Method
Hardness, 15 s	93 Shore A	ISO 868-85
Density, RT	1.54 g/cm <sup>3</sup>	ISO 1817
Tensile strength	11.3 MPa	ISO 37-94
Elongation at break	185 %	ISO 37-94
Stress at 20% elongation	9.7 MPa	ISO 37-94
Tear strength	39 kN/m	ISO 34/1-94, B,a
Tear strength	7 kN/m	ISO 34/1-94, A ("trouser")
Low temperature brittle point	-50 °C	ISO 812-68
Hot air ageing 7 days / 136 °C		ISO 188-82
Hardness	+2 Shore A	
Tensile strength, % change	+18	
Elongation at break, % change	-42	
Hot pressure test 6 hours / 80°C	Pass	VDE 0472, part 609
Limited oxygen index (LOI)	36 %	ASTM D 2863 A
Surface resistivity	1.7x10 <sup>10</sup> Ohm	ASTM D 257
Dielectric strength	33.4 kV/mm	ASTM D 149
Values are for extruded flat strips (Brabender - Compression ratio: 2/1)		

Preliminary Data  
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# DYTRON XL RUBBER 7350-92

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## KEY FEATURES

- High flexibility at room temperature
- Excellent low temperature flexibility
- High flame retardancy
- Low toxicity
- Low smoke emission

## PROCESSING

Dytron XL thermoplastic rubber processes well on extruders designed for highly filled halogen-free flame retardant compounds. A powerful drive is recommended for maximum output. A low shear screw is preferred (compression ratio 2:1 or less). Screen packs and breaker plate are not required. Head and tools with large volume flow channels are recommended.

## TEMPERATURE SETTINGS

Feeding Zone: 135 °C - 140°C  
Transition Zones: 150 °C - 160 °C  
Die : 170 °C - 175 °C

Melt temperature should not exceed 180 °C at the exit of the die.

## DRYING

Material can be dried in a dehumidified air oven 60C for 4 hours before extrusion. It is only necessary if bag is open for a prolonged time. It is recommended for silane grafting- moisture x-linking techniques.

## GENERAL

Dytron XL rubber product form are pellets and will be supplied in 25 kg bags. Material safety data sheet ensuring safe handling of the product is available.

### Sales and Order Assistance

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