

Product Specification DG-ML-0110E	
Pouring ring red, ETFE	

Issue no. 1 from 18.01.2008

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1. Material / Product description

A melt processable thermoplastic that is essentially a 1:1 alternating copolymer of ethylene and tetrafluorethylene (partially crystalline ethylene/tetrafluorethylene copolymer).

Cat.-No. 29 24419 GL 32
Cat.-No 29 24428 GL 45

2. Properties

a) Chemical Properties (Resistance)

Acids – concentrated -	good
Acids – dilute -	good
Alcohols	good
Alkalis	good
Aromatic hydrocarbons	good
Greases and oils	good
Halogens	good
Ketones	good

b) Electrical Properties

Dielectric constant at 1 MHz	2.6
Dielectric strength (KV · mm ⁻¹)	25
Dissipation factor at 1 MHz	0.0005
Surface resistance (Ohm/ sq)	> 10 ¹⁴
Volume resistance (Ohm/cm)	10 ¹⁶

c) Mechanical Properties

Elongation at break (%)	250 – 350
Hardness – Rockwell	R50
Izod impact strength (J m ⁻¹)	> 1000
Tensile modulus (GPa)	0.8
Tensile strength (MPa)	28 - 48

d) Physical Properties

Density (g/cm ³)	1.7
Limiting oxygen index (%)	30 - 32
Resistance to Ultra-violet	excellent
Water absorption (%)	0 – 0.03

e) Thermal Properties

Heat-deflection temperature – 0.45 MPa (°C)	105
Heat-deflection temperature – 1.8 MPa (°C)	70
Specific Heat (kJ · kg ⁻¹ K ⁻¹)	1.9 – 2.0
Coefficient of thermal expansion (x10 ⁻⁶ K ⁻¹)	90 - 170
Thermal Conductivity at 23°C (Wm ⁻¹ K ⁻¹)	0.24
Lower working temperature (°C)	≤ 100

	prepared		approved		authorized
Organisation/ Name	MM/Lütkepohl	MQM/Brien	MM/Thiele	MP-T/Kopp	MG/Reiche
Date:	18.01.2008	18.01.2008	18.01.2008	18.01.2008	18.01.2008
Signature:	signed Lütkepohl	signed Brien	signed Thiele	signed Kopp	signed Reiche

150 – 160

4. Identification

- article number
- date
- EAN - barcode

5. Quality Management

In order to determine any deviations or shifts of quality that may be detected, the inspection is integrated in the manufacturing process (worker self-inspections).

The proper relationships of inspection range and inspection criteria are guaranteed by means of defined inspection specifications.

Customer complaints may only submitted to the sales unit that originally sold the product.

Complaints must refer to the quality limit values or properties stated in the DURAN Group specification. Post-processing, sorting, scrapping or returning potentially faulty items may entail costs; it is essential that any actions are agreed upon in advance between the customer and DURAN Group.

7. Scope

This product specification is the basis for quality considerations at DURAN Group and at its customers/suppliers. It applies to all products produced and supplied since this specification came into effect.

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8. Validity

This specification is valid as from 18.01.2008 onwards and replace all previous data sheets and specification. In the case of disagreement only the German version of this specification is valid.

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