

Arnitel® EL250

Thermoplastic Copolyester Elastomer
DSM Engineering Plastics

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

Injection Molding

Special Features:

- USP class VI classified

Used In:

- Soft touch in spatulas and kitchenware

Arnitel® is a high-performance ThermoPlastic Copolyester (TPC) that offers you a unique combination of flexibility, high temperature resistance and strength - plus excellent processing characteristics.

In industries ranging from automotive to E&E, Arnitel® is increasingly being seen as a lighter, smarter, greener alternative to conventional rubbers €" reducing environmental impact and ultimately, system costs.

The product is supported by an experienced and knowledgeable global team continuously working on new ideas and applications, as well as exploring new markets. By listening to your needs and understanding your process and products, we develop solutions that make a real difference.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Soft		
Uses	• Kitchenware		
Agency Ratings	• USP Class VI		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• ISO 18064 TPC-ET		

Physical	Nominal Value Unit	Test Method
Density	1,08 g/cm ³	ISO 1183
Apparent (Bulk) Density	0,65 g/cm ³	ISO 60
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	41,0 cm ³ /10min	ISO 1133
Water Absorption (Saturation, 23°C)	0,80 %	ISO 62

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	25,0 MPa	ISO 527-2
Tensile Stress		ISO 527-2
Break	16,0 MPa	
5,0% Strain	1,20 MPa	
10% Strain	2,10 MPa	
50% Strain	4,40 MPa	
100% Strain	5,10 MPa	
Tensile Strain (Break)	> 300 %	ISO 527-2
Nominal Tensile Strain at Break	900 %	ISO 527-2

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179/1eA
-30°C	No Break	
23°C	No Break	
Notched Izod Impact Strength		ISO 180/1A
-20°C	No Break	
23°C	No Break	
Tensile Impact Strength (23°C)	No Break	ISO 8256/1

Hardness	Nominal Value Unit	Test Method
Shore Hardness (Shore D, 3 sec)	25	ISO 868



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Thermal	Nominal Value Unit	Test Method
Glass Transition Temperature ²	-80,0 °C	ISO 11357-2
Melting Temperature ²	180 °C	ISO 11357-3
CLTE		ISO 11359-2
Flow	2,2E-4 cm/cm/°C	
Transverse	2,2E-4 cm/cm/°C	
Electrical	Nominal Value Unit	Test Method
Volume Resistivity	5,0E+14 ohms · cm	IEC 60093
Flammability	Nominal Value Unit	Test Method
Flammability Classification (1,5 mm)	HB	IEC 60695-11-10, -20
Fill Analysis	Nominal Value Unit	
Melt Density	0,905 g/cm ³	

Notes

¹ Typical properties: these are not to be construed as specifications.

² 10°C/min



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Where to Buy

Supplier

DSM Engineering Plastics

Evansville, IN USA

Telephone: 800-333-4237

Web: <http://www.dsmep.com/>

Distributor

3Polymer (Guangzhou) Chemical Technology Co., Ltd.

Telephone: +86-20-22237151

Web: <http://3polymer.com>

Availability: China

Channel Prime Alliance

Telephone: 800-247-8038

Web: <http://www.channelpa.com/>

Availability: North America

Chase Plastic Services, Inc.

Chase Plastics Services is a North American distributor with representatives throughout the region. Please find your rep here:

<http://www.chaseplastics.com/contact/locations>

Telephone: 800-232-4273

Web: <http://www.chaseplastics.com/>

Availability: North America

Nexeo Solutions - Europe

Nexeo Solutions is a Pan European distribution company. Contact Nexeo for availability of individual products by country.

Telephone: +34-93-480-9125

Web: <http://www.nexeosolutions.com/>

Availability: Austria, Belgium, Bulgaria, Czech Republic, Denmark, Finland, France, Germany, Ireland, Italy, Latvia, Lithuania, Luxembourg, Netherlands, Norway, Poland, Portugal, Romania, Russian Federation, Slovakia, Spain, Sweden, Switzerland, United Kingdom

RESINEX Group

RESINEX is a Pan European distribution company. Contact RESINEX for availability of individual products by country.

Telephone: +32-14-672511

Web: <http://www.resinex.com/>

Availability: Europe

TER HELL PLASTIC GMBH

TER HELL PLASTIC is a Pan European distribution company. Contact TER HELL PLASTIC for availability of individual products by country.

Telephone: +49-232-3941-0

Web: <http://www.terhell.de/>

Availability: Austria, Bulgaria, Czech Republic, Germany, Hungary, Poland, Romania, Slovakia, Slovenia, Switzerland

