

Durethan® AKV25H3.0LT 904040

Polyamide 66

Envalior

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

25% Glass Reinforced, Injection Molding, Heat Stabilized, Laser Transparent Black

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English) • White Paper - High Performance Plastics in Automotive Actuator Applications (English)
UL Yellow Card ²	• E245249-473554
Search for UL Yellow Card	• Envalior • Durethan®
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Fiber, 25% Filler by Weight
Additive	• Heat Stabilizer
Features	• Heat Stabilized • Laser Transparent
Appearance	• Black
Processing Method	• Injection Molding
Resin ID	• PA66-GF25

Physical	Dry	Conditioned	Unit	Test Method
Density	1.32	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.1	--	%	
Flow	0.50	--	%	
Water Absorption				ISO 62
Saturation, 23°C	6.0	--	%	
Equilibrium, 23°C, 50% RH	2.1	--	%	

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	8400	6000	MPa	ISO 527-1
Tensile Stress (Break)	160	115	MPa	ISO 527-2
Tensile Strain (Break)	3.0	6.0	%	ISO 527-2
Flexural Modulus	7500	5000	MPa	ISO 178
Flexural Stress	240	170	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	< 10	< 10	kJ/m ²	
23°C	10	12	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	50	50	kJ/m ²	
23°C	60	80	kJ/m ²	
Notched Izod Impact Strength (-40°C)	< 10	< 10	kJ/m ²	ISO 180/1A



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Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	250	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	240	--	°C	ISO 75-2/A
Melting Temperature ⁴	263	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	3.0E-5	--	cm/cm/°C	
Transverse	1.1E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+12	ohms	IEC 62631-3-2
Volume Resistivity	1.0E+13	1.0E+10	ohms·m	IEC 62631-3-1
Electric Strength	40	35	kV/mm	IEC 60243-1
Relative Permittivity				IEC 62631-2-1
100 Hz	4.00	10.0		
1 MHz	4.00	4.00		
Dissipation Factor				IEC 62631-2-1
100 Hz	0.011	2200		
1 MHz	0.020	750		
Comparative Tracking Index	500	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification (1.5 mm)	HB	--		IEC 60695-11-10, -20
Glow Wire Flammability Index (2.0 mm)	650	--	°C	IEC 60695-2-12

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.

⁴ 10°C/min



Where to Buy

Supplier

Envalior

Web: <https://envalior.com/>

Distributor

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

Formerra

Formerra is a next generation distributor of performance material solutions for the world's leading brand owners and manufacturers. Bringing you commercial and technical expertise, industry know-how, and access to more than 5,000 materials from 40+ premium suppliers faster and easier than ever before.

Telephone: 1.888.502.0951 (USA); +86-21-60284936 (China)

Web: <https://www.formerra.com>

Availability: Global

Guangzhou 3Polymer Chemical Technology Co.,Ltd.

Telephone: +86-20-3466-7988

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

Availability: China

Mito Polimeri SRL

Telephone: +39-0438-488255

Web: <https://www.mitopolimeri.it/>

Availability: Italy

Nexeo Plastics

Nexeo Plastics is leading global resin distributor with the technical resources you need to overcome material challenges. Visit us on the web at www.nexeoplastics.com.

Telephone: 833-446-3936

Web: <https://www.nexeoplastics.com/>

Availability: North America

