

Terluran® HD-15

Acrylonitrile Butadiene Styrene

BASF Corporation

Product Description

Terluran® HD-15 is an easily processable ABS grade with well-balanced mechanical properties and an excellent chemical and stress cracking resistance.

Terluran® HD-15 is in compliance with Pharmacopoeia and Biocompatibility-Tests in Europe and United States as specified below.

However, the biocompatibility tests were recorded on tests specimens of TERLURAN® HD-15 to show compatibility of the material in general. The biocompatibility-tests listed below are not part of any continuous production control.

General

Material Status	• Commercial: Active		
Availability	• Europe		
Features	• Good Chemical Resistance	• Good Processability	• High ESCR (Stress Crack Resist.)
Agency Ratings	• DMF 18858 • EP Monograph 3.2.2	• ISO 10993 Part 5 • USP Class VI	
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	15.0	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow	0.40 to 0.70	%	ISO 294-4
Water Absorption			ISO 62
Saturation, 23°C	1.0	%	
Equilibrium, 23°C, 50% RH	0.22	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2300	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	38.0	MPa	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)	10	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	6.0	kJ/m ²	
23°C	15	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	90	kJ/m ²	
23°C	170	kJ/m ²	
Notched Izod Impact Strength			ISO 180/1A
-30°C	6.00	kJ/m ²	
23°C	16.0	kJ/m ²	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	102	MPa	ISO 2039-1
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	99.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	93.0	°C	ISO 75-2/A
Vicat Softening Temperature	100	°C	ISO 306/B50
CLTE - Flow (23 to 80°C)	0.000080 to 0.00011	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.17	W/m/K	ISO 8302

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 www.kedisujiao.com

备注：以上原料物性数据由IDES发布,我公司仅提供参考！数据如有变动，请联系原料生产厂家获知。我公司不承担任何法律责任！

Terluran® HD-15
Acrylonitrile Butadiene Styrene
BASF Corporation

Friday, December 25, 2009

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohm·cm	IEC 60093
Relative Permittivity			IEC 60250
23°C, 100 Hz	2.90		
23°C, 1 MHz	2.80		
Dissipation Factor			IEC 60250
23°C, 100 Hz	0.0048		
23°C, 1 MHz	0.0079		
Comparative Tracking Index			IEC 60112
Solution A	600	V	
Solution B	225	V	
Electric Strength (23°C, 0.700 mm)	37	kV/mm	IEC 60243-1

Additional Information

The value listed as Thermal Conductivity, ISO 8302, was tested in accordance with DIN 52612-2.
 Electric Strength, IEC 60243-1, K20/P50, 23°C, 0.6 to 0.8mm, 23°C: 37 kV/mm
 Maximum Service Temperature (Short Cycle Operation): 80°C

Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	2.0 to 4.0	hr
Processing (Melt) Temp	220 to 260	°C
Mold Temperature	30.0 to 60.0	°C

Notes

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

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 www.kedisujiao.com

备注：以上原料物性数据由IDES发布,我公司仅提供参考！数据如有变动，请联系原料生产厂家获知。我公司不承担任何法律责任！