Product Comparison



Technical Data

Product Description

Terlux® 2802 is a standard injection molding grade based on a MABS polymer. Terlux® 2802 offers an unique combination of properties, such as a balanced stiffness/toughness ratio and the high transparency well known in SAN molding compositions. Food contact statements are available on request.

FEATURES

- · Chemical resistance
- · Impact strength
- Transparency

APPLICATIONS

- Homeware
- · Food contact applications
- · Cosmetic packaging
- · Toys, sports & leisure

Generic MABS

Terlux®

2802

This data represents typical values that have been calculated from all products classified as: Generic MABS

This information is provided for comparative purposes only.

General	Terlux® 2802	Generic MABS
Manufacturer / Supplier	INEOS Styrolution	Generic
Generic Symbol	• MABS	• MABS
Material Status	Commercial: Active	Commercial: Active
Literature ¹	Technical Datasheet (English)	
UL Yellow Card ²	• E108538-100840241	
Search for UL Yellow Card	INEOS StyrolutionTerlux®	
Availability	Africa & Middle EastAsia PacificEuropeLatin AmericaNorth America	 Africa & Middle East Asia Pacific Europe Latin America North America
Features	 Balanced Stiffness/Toughness Chemical Resistant Food Contact Acceptable High Clarity High Impact Resistance 	
Uses	Cosmetic PackagingFood Service ApplicationsHousehold GoodsSporting GoodsToys	
Appearance	Clear/Transparent	
Forms	• Pellets	
Processing Method	Injection Molding	
Multi-Point Data	 Creep Modulus vs. Time (ISO 11403) Isochronous Stress vs. Strain (ISO 11403) Isothermal Stress vs. Strain (ISO 11403) Secant Modulus vs. Strain (ISO 11403) Viscosity vs. Shear Rate (ISO 11403) 	

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Physical	Terlux®	Generic	Unit	Test Method
	2802	MABS		
Density / Specific Gravity				
		1.06 to 1.11	g/cm³	ASTM D792
	1.08	1.08 to 1.10	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)				
220°C/10.0 kg		2.0 to 25	g/10 min	ASTM D1238
220°C/10.0 kg		10 to 30	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	2.0	2.0 to 18	cm³/10min	ISO 1133
Molding Shrinkage				
Flow		0.50 to 0.56	%	ASTM D955
Across Flow		0.40 to 0.60	%	ASTM D955
	0.40 to 0.70	0.40 to 0.60	%	ISO 294-4
Water Absorption				ISO 62
Saturation, 23°C	0.70		%	
Equilibrium, 23°C, 50% RH	0.35		%	
/lechanical	Terlux® 2802	Generic MABS	Unit	Test Method
Tensile Modulus				
		1940 to 2650	MPa	ASTM D638
	2000	1880 to 2630	MPa	ISO 527-1
Tensile Strength				
Yield		36.9 to 59.0	MPa	ASTM D638
Yield		41.6 to 55.4	MPa	ISO 527-2
Yield, 23°C	48.0		MPa	ISO 527-2
Break		29.9 to 39.2	MPa	ASTM D638
Break		32.0 to 48.0	MPa	ISO 527-2
		45.0 to 57.0	MPa	ISO 527-2
Tensile Strain		.5.5 to 01.0	1711 G	
Yield		3.0 to 4.0	%	ISO 527-2
Yield, 23°C	4.0		%	ISO 527-2
Break		15 to 26	%	ASTM D638
Break		5.0 to 21	%	ISO 527-2
	12		%	ISO 527-2
Nominal Tensile Strain at Break (23°C)	12		70	130 021-2
Flexural Modulus		1770 +- 0050	MD-	A CTM DZOC
		1770 to 2850	MPa	ASTM D790
		2200 to 2650	MPa	ISO 178
23°C	2000		MPa	ISO 178
Flexural Strength				
		53.7 to 96.0	MPa	ASTM D790
		69.8 to 86.3	MPa	ISO 178
23°C	70.0		MPa	ISO 178

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Product Comparison



Impact	Terlux® 2802	Generic MABS	Unit	Test Method
Charpy Notched Impact Strength	2002	IVIADO		
		2.0 to 15	kJ/m²	ISO 179
-30°C	2.0		kJ/m²	ISO 179/1eA
23°C	5.0		kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength				
		70 to 120	kJ/m²	ISO 179
-30°C	80		kJ/m²	ISO 179/1eU
23°C	120		kJ/m²	ISO 179/1eU
Notched Izod Impact				
		20 to 170	J/m	ASTM D256
		6.9 to 15	kJ/m²	ISO 180
Hardness	Terlux® 2802	Generic MABS	Unit	Test Method
Rockwell Hardness				
		105 to 118		ASTM D785
		102 to 116		ISO 2039-2
Ball Indentation Hardness	70.0		MPa	ISO 2039-1
l Thermal	Terlux® 2802	Generic MABS	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed		81.0 to 92.3	°C	ISO 75-2/B
0.45 MPa, Annealed ⁴	94.0		°C	ISO 75-2/B
0.45 MPa, Annealed		85.0 to 94.0	°C	ISO 75-2/B
1.8 MPa, Unannealed		77.6 to 92.0	°C	ASTM D648
1.8 MPa, Unannealed		70.0 to 79.1	°C	ISO 75-2/A
1.8 MPa, Annealed ⁴	90.0		°C	ISO 75-2/A
1.8 MPa, Annealed		79.6 to 95.5	°C	ISO 75-2/A
Vicat Softening Temperature				
		82.4 to 108	°C	ASTM D1525
	93.0		°C	ISO 306/B50
		86.0 to 105	°C	ISO 306
CLTE - Flow	8.0E-5 to 1.1E-4		cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.17		W/m/K	DIN 52612
Electrical	Terlux® 2802	Generic MABS	Unit	Test Method
Dissipation Factor		0.013 to 0.016		IEC 60250
Optical	Terlux® 2802	Generic MABS	Unit	Test Method
Refractive Index ⁵	1.540			ISO 489
Light Transmittance				ASTM D1003
		85.8 to 90.0	%	
550 nm	89.0		%	
Haze	< 3.00	1.75 to 3.25	%	ASTM D1003
Injection	Terlux® 2802	Generic MABS	Unit	
Drying Temperature	70	70 to 85	°C	

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Injection	Terlux® 2802	Generic MABS	Unit	
Drying Time	2.0	2.0 to 4.0	hr	
Rear Temperature		185 to 220	°C	
Middle Temperature		200 to 216	°C	
Front Temperature		210 to 236	°C	
Nozzle Temperature		214 to 240	°C	
Processing (Melt) Temp	230 to 260	214 to 245	°C	
Mold Temperature	50 to 75	50 to 63	°C	
Injection Pressure		121 to 155	MPa	
Back Pressure		0.735 to 45.0	MPa	

Screw Speed Injection Notes

Generic MABS

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45 to 100

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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

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 4} h/80 °C

⁵ Sodium D Line