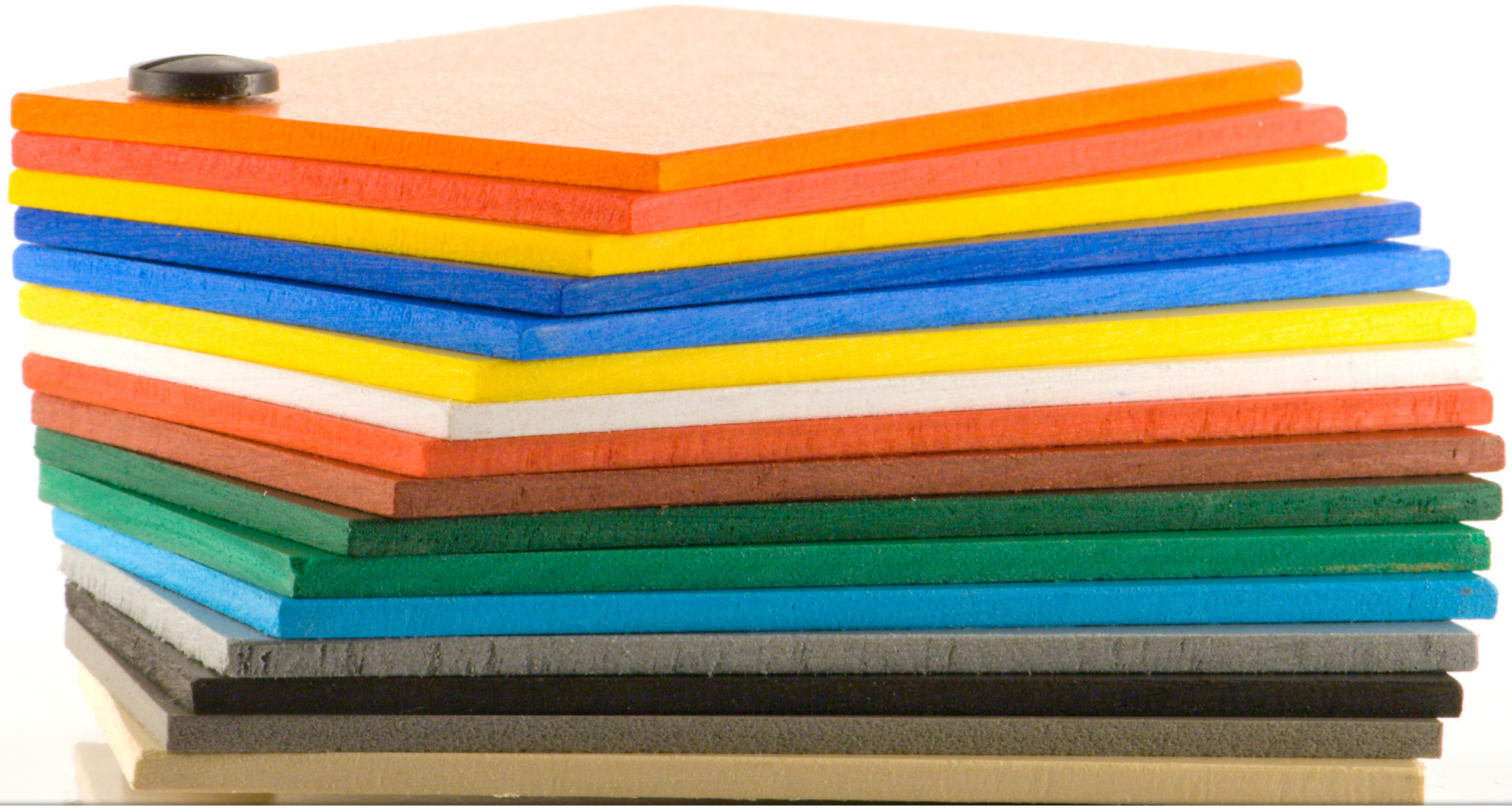
INEOS STYROLUTION

TERLURAN® PRODUCT GUIDE



INEOS STYROLUTION

ENTEC

Driving Success. Together.

Terluran® ABS, from INEOS Styrolution, has set worldwide standards for performance and product quality. Terluran® GP-22 is a general-purpose injection molding grade with high resistance to impact and heat distortion. Terluran® GP-35 is an easy flowing injection molding grade intended for thin wall or long flow length applications. Terluran® HI-10 is a high impact grade suitable for injection molding, compounding or extrusion.

With a very bright and consistent natural color, Terluran® is well suited for visual components, particularly when there is a need for brilliant colors. Terluran® is well known for superior quality and color consistency and has proven to be an extremely cost-effective material for components with stringent service requirements

COMMON APPLICATIONS INCLUDE:

ELECTRICAL HOUSINGS

HOME APPLIANCES

AUTOMOTIVE COMPONENTS

OFFICE SUPPLIES

TOYS

KEY PROPERTIES:

PROPERTY	TEST METHOD	UNITS	GP-22	GP-35	HI-10
Density	ISO 1183	g/cm³	1.04	1.04	1.04
Melt Flow Rate at 220°C / 10 kg	ASTM D1238	g/10 min.	19	34	8
Melt Volume Rate at 230°C / 3.8 kg	ASTM D1238	cm³/10 min.	4.8	11	1.7
Melt Volume Rate at 220°C / 10 kg	ISO 1133	cm³/10 min.	19	34	5.5
Rockwell Hardness	ASTM D785	R Scale	103	102	95
Tensile Modulus	ISO 527-1	MPa	2300	2300	1900
Tensile Strength at Yield	ISO 527-2	MPa	45	44	38
Tensile Strain at Yield	ISO 527-2	%	2.6	2.4	2.8
Tensile Strain at Break	ISO 527-2	%	10	12	9
Flexural Modulus	ASTM D790	MPa	2300	2350	2050
Flexural Strength	ISO 178	MPa	65	65	56
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m²	22	19	35
Notched Izod Impact Strength	ISO 180/A	kJ/m²	26	22	36
HDT at 0.45 Map Unannealed	ASTM D648	°C	90	90	94
HDT at 0.45 Map Annealed	ASTM D648	°C	104	101	102
HDT at 1.8 Map Unannealed	ASTM D648	°C	78	75	86
HDT at 1.8 Map Annealed	ASTM D648	°C	99	97	98

PROCESSING	Terluran® GP-22	Terluran® GP-35	Terluran® HI-10
Drying Temperature (°C)	80	80	80
Drying Time (°C)	2 to 4	2 to 4	2 to 4
Melt Temperature (°C)	220 to 260	220 to 260	220 to 260
Mold Temperature (°C)	30 to 80	30 to 80	30 to 80