

Product Description

Terluran HI-10 is an injection molding and extrusion grade of ABS with very high toughness and medium flow.

RHEOLOGICAL	ASTM Test Method	Property Value
Melt Volume Rate 230 °C/3.8 Kg, cm ³ /10min.	D-1238	1.7
Melt Volume Rate 220 °C/10 Kg	D-1238	8
Melt Volume Rate 200 °C/5 Kg	D-1238	0.1
PHYSICAL	ASTM Test Method	Property Value
Specific Gravity	D-792	1.03
Mold Shrink, Linear-Flow (in/in)	D-955	0.0055
Water absorption saturated at 23°C, %	D-570	1.03
MECHANICAL	ASTM Test Method	Property Value
Rockwell Hardness, R Scale	D-785	95
Tensile Modulus, MPa (psi)	D-638	
23°C (73°F)		2,000 (290,000)
Tensile Strength, Yield (2in/min), MPa (psi)	D-638	
23°C (73°F)		43 (6,240)
Tensile Strength, Break (2in/min), MPa (psi)	D-638	33 (4,790)
Elongation, Yield (2in/min), %	D-638	
23°C (73°F)		3.5
Flexural Modulus, MPa (psi)	D-790	
23°C (73°F)		2,050 (297,000)
Flexural Strength, MPa (psi)	D-790	
23°C (73°F)		66 (9,570)
IMPACT	ASTM Test Method	Property Value
Notched Izod Impact, J/M (ft-lbs/in)	D-256	
23°C (73°F)		450 (8.4)
-18°C (0°F)		180 (3.4)
-30°C (-22°F)		120 (2.2)
THERMAL	ASTM Test Method	Property Value
DTUL @ 264 psi - Unannealed °C(°F)	D-648	86 (186)
DTUL @ 66 psi - Unannealed °C(°F)	D-648	94 (201)
DTUL @ 264 psi - Annealed °C(°F)	D-648	98 (208)
DTUL @ 66 psi - Annealed °C(°F)	D-648	102 (215)
Vicat, A/2 (50 deg. C/h, 50N), °C(°F)	D-1525	94 (201)
UL RATINGS	UL Test Method	Property Value
Flammability Rating, 1.5mm	UL94	HB
Relative Temperature Index, 1.5mm	UL746B	
Mechanical w/o Impact, °C		90
Mechanical w/ Impact, °C		80
Electrical, °C		90

Terluran® HI-10



ELECTRICAL	ASTM Test Method	Property Value
Volume Resistivity	D-257	>1E13
Dielectric Constant (1000000 Hz, 0,0394 in)	D-150	2.8

Note

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