



Promalene® ABS PR-22

Product Description

Promalene PR-22 is an easy flowing grade of ABS for injection molding with high resistance to impact and heat deflection.

RHEOLOGICAL	ASTM Test Method	Property Value
Melt Volume Rate 230 °C/3.8 Kg, cm ³ /10min.	D-1238	4.8
Melt Volume Rate 220 °C/10 Kg	D-1238	19
Melt Volume Rate 200 °C/5 Kg	D-1238	1.5
PHYSICAL	ASTM Test Method	Property Value
Specific Gravity	D-792	1.04
Mold Shrink, Linear-Flow (in/in)	D-955	0.0055
Water absorption saturated at 23°C, %	D-570	1
MECHANICAL	ASTM Test Method	Property Value
Rockwell Hardness, R Scale	D-785	103
Tensile Modulus, MPa (psi) 23°C (73°F)	D-638	2,300 (333,000)
Tensile Strength, Yield (2in/min), MPa (psi) 23°C (73°F)	D-638	45 (6,520)
Tensile Strength, Break (2in/min), MPa (psi)	D-638	34 (4,930)
Elongation, Yield (2in/min), % 23°C (73°F)	D-638	2.6
Flexural Modulus, MPa (psi) 23°C (73°F)	D-790	2,300 (333,000)
Flexural Strength, MPa (psi) 23°C (73°F)	D-790	65 (9,430)
IMPACT	ASTM Test Method	Property Value
Notched Izod Impact, J/M (ft-lbs/in) 23°C (73°F)	D-256	300 (5.6)
-18°C (73°F)		100 (1.9)
-30°C (73°F)		60 (1.1)
THERMAL	ASTM Test Method	Property Value
DTUL @ 264 psi - Unannealed °C(°F)	D-648	78 (172)
DTUL @ 66 psi - Unannealed °C(°F)	D-648	91 (195)
DTUL @ 264 psi - Annealed °C(°F)	D-648	99 (210)
DTUL @ 66 psi - Annealed °C(°F)	D-648	104 (219)
Vicat, A/2 (50 deg. C/h, 50N), °C(°F)	D-1525	96 (204)
UL RATINGS	ASTM Test Method	Property Value
Flammability Rating, 1.5mm	UL94	HB
Relative Temperature Index, 1.5mm	UL74	6B
Mechanical w/o Impact,		°C 95
Mechanical w/ Impact,		°C 80
Electrical,		°C 90
ELECTRICAL	ASTM Test Method	Property Value
Volume Resistivity	D-257	>1E13
Dielectric Constant (1000000 Hz, 0,0394 in)	D-150	2.8