



Promalene® ABS PR-35

Product Description

Promalene PR-35 is a very high flow grade of ABS for injection molding with good 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	11
Melt Volume Rate 220 °C/10 Kg	D-1238	34
Melt Volume Rate 200 °C/5 Kg	D-1238	3.1

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	0.95

MECHANICAL	ASTM Test Method	Property Value
Rockwell Hardness, R Scale	D-785	102
Tensile Modulus, MPa (psi) 23°C (73°F)	D-638	2,500 (363,000)
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	33 (4,790)
Elongation, Yield (2in/min), % 23°C (73°F)	D-638	2.4
Flexural Modulus, MPa (psi) 23°C (73°F)	D-790	2,350 (341,000)
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	240 (4.5)
-18°C (73°F) 85 (1.6)		
-30°C (73°F) 80 (1.5)		

THERMAL	ASTM Test Method	Property Value
DTUL @ 264 psi - Unannealed °C(°F)	D-648	75 (167)
DTUL @ 66 psi - Unannealed °C(°F)	D-648	89 (192)
DTUL @ 264 psi - Annealed °C(°F)	D-648	97 (206)
DTUL @ 66 psi - Annealed °C(°F)	D-648	101 (213)
Vicat, A/2 (50 deg. C/h, 50N), °C(°F)	D-1525	95 (203)

UL RATINGS	ASTM 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		

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