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Product Data Sheet & General Processing Conditions

RTP 700 ABR High Density Polyethylene (HDPE) Abrasion Resistant

-20 C Notched Izod Impact = 17 ft-lb/in -30 C Notched Izod Impact = 16 ft-lb/in

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	0.95	0.95	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0200 - 0.0300 in/in	2.00 - 3.00 %	D 955

MECHANICAL

Impact Strength, Izod notched 1/8 in (3.2 mm) section	15.5 ft-lbs/in	828 J/m	D 256
unnotched 1/8 in (3.2 mm) section	No Break	No Break	D 4812
Tensile Strength	3600 psi	25 MPa	D 638
Tensile Elongation	> 10.0 %	> 10.0 %	D 638
Tensile Modulus	0.12 x 10 ⁶ psi	827 MPa	D 638
Flexural Strength	3500 psi	24 MPa	D 790
Flexural Modulus	0.11 x 10 ⁶ psi	758 MPa	D 790
Hardness Shore D, instantaneous	68	68	D 2240

THERMAL

Deflection Temperature @ 264 psi (1820 kPa)	130 °F	54 °C	D 648
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PROPERTY NOTES

Data herein is typical and not to be construed as specifications.

Unless otherwise specified, all data listed is for natural or black colored materials. Pigments can affect properties.

GENERAL PROCESSING FOR INJECTION MOLDING

	English	SI Metric
Injection Pressure	10000 - 15000 psi	69 - 103 MPa
Melt Temperature	380 - 450 °F	193 - 232 °C
Mold Temperature	70 - 150 °F	21 - 66 °C
Drying	2 hrs @ 175 °F	2 hrs @ 79 °C