TOTAL PETROCHEMICALS

TOTAL PETROCHEMICALS USA, INC.

POLYSTYRENE 945E

Melt Flow	ASTM Test	Typical Value
Flow, gm/10 min., 200/5.0	D-1238	3.5

Impact Properties	ASTM Test	Typical Value
Falling Dart, in-lb	D-3029	160
Izod, ft-lbs/in, notched	D-256	3.0

Tensile Properties	ASTM Test	Typical Value
Strength, psi	D-638	3,600
Modulus, psi (10^5)	D-638	3
Elongation, %	D-638	55

Flexural Properties	ASTM Test	Typical Value
Strength, psi	D-790	6,300
Modulus, psi (10^5)	D-790	3.1

Thermal Properties	ASTM Test	Typical Value
Heat Distortion, °F Annealed	D-648	194
Vicat Softening, °F	D-1525	203

Other Properties	ASTM Test	Typical Value
Gloss, 60°	D-523	88

POLYSTYRENE 945E is a super high impact polystyrene designed for applications requiring extra toughness without sacrificing mechanical properties, excellent falling dart impact which, combined with the high gloss, make it a candidate for some ABS applications. This polymer is superior for co-extrusion of high gloss sheet. 945E has unique capabilities for deep draw thermoforming with good sidewall distribution.

Other Information

(1) This material complies with FDA requirements as decrypted in 21 CFR §177.1640.
(2) This material holds Underwriters Laboratory recognition 94HB;see UL File E55470 at www.UL.com.
(3) Material Safety Data Sheets are available to help customers satisfy their safety needs.

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All tests were run under laboratory conditions. ASTM (where applicable) testing procedures. The data are intended as a general guide only and do not necessarily represent results that may be obtained elsewhere. The use of these products must be guided by the user's own methods for selection of proper formulation. TOTAL PETROCHEMICALS USA, INC. disclaims any responsibility for misuse or misapplication of its products. TOTAL PETROCHEMICALS USA, INC. MAKES NO WARRANTY OF MERCHANTABILITY AND THERE IS NO WARRANTY THAT GOODS SUPPLIED SHALL BE FIT FOR ANY PARTICULAR PURPOSE. TOTAL PETROCHEMICALS USA, INC. liability and customer's exclusive remedy for any claims arising out of sales of its products are expressly limited at customer option to replacement of non-performing goods or payment not to exceed the purchase price plus transportation charges thereon in respect to any material which damage is claimed.