

# Appliance materials selector guide

*Specialty plastics for the appliance  
and floor care markets*



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Product	Description	Suggested applications	Specific gravity ASTM D792	Tensile yield ASTM D638		Tensile break ASTM D638	
				Elongation %	Stress MPa (psi)	Elongation %	Stress MPa (psi)
<b>DuraStar™ polymers</b>							
DS1010 clear and tints	PCTA	<ul style="list-style-type: none"> <li>• Refrigerator interior parts</li> <li>• Floor care</li> <li>• Washing machine lids</li> </ul>	1.20	5	47 (6,900)	300	51 (7,400)
DS2010 clear and tints			1.20	5	46 (6,700)	310	53 (7,700)
DS1910HF clear and tints			1.19	5	50 (7,200)	270	43 (6,300)
<b>Eastar™ copolyesters</b>							
DN011 clear	PCTG	<ul style="list-style-type: none"> <li>• Refrigerator interior parts</li> <li>• Floor care</li> </ul>	1.23	4	44 (6,300)	330	54 (7,800)
EN067 clear and tints	PET		1.32	4	57 (8,200)	134	24 (3,500)
GN007 clear and tints	PETG		1.27	4.4	50 (7,200)	180	30 (4,300)
<b>Tenite™ cellulosics</b>							
Propionate 375-12— 12% PZ clear and tints	Cellulose acetate propionate	• Floor care	1.20	45	31.7 (4,600)	45	31 (4,800)
<b>Eastman Tritan™ copolyesters</b>							
TX 1001 (clear and opaque)	Copolyester	<ul style="list-style-type: none"> <li>• Small appliances</li> <li>• Dryer doors</li> <li>• Floor care</li> </ul>	1.18	6	43 (6,200)	210	53 (7,700)
TX 1501 HF (clear and opaque)			1.18	7	43 (6,200)	210	52 (7,500)
TX 2001 (clear and opaque)			1.17	7	44 (6,400)	140	53 (7,700)

Product	Flexural modulus MPa (10 <sup>5</sup> psi) ASTM D790	Izod impact notched J/m (ft.lbf/in.) @ 23°C (73°F) ASTM D256	Deflection temperature °C (°F) ASTM D648		Optical properties ASTM D1003	
			@ 1.82 MPa (264 psi)	@ 0.455 MPa (66 psi)	Transmittance %	Haze %
<b>DuraStar™ polymers</b>						
DS1010 clear and tints	2,000 (2.9)	80 (1.5)	65 (149)	75 (167)	91	0.3
DS2010 clear and tints	1,900 (2.8)	370 (7.0)	65 (149)	73 (164)	91	0.3
DS1910HF clear and tints	1,900 (2.7)	80 (1.5)	66 (150)	73 (163)	92	<1
<b>Eastar™ copolyesters</b>						
DN011 clear	1,800 (2.6)	NB*	64 (147)	73 (163)	92	<0.1
EN067 clear and tints	2,600 (3.8)	58 (1.1)	61 (142)	66 (151)	84	—
GN007 clear and tints	2,100 (3.0)	105 (1.9)	62 (143)	70 (158)	90	0.2
<b>Tenite™ cellulosics</b>						
Propionate 375-12—12% PZ clear and tints	1,448 (2.1)	416 (7.8)	75 (167)	83 (181)	<90	<8
<b>Eastman Tritan™ copolyesters</b>						
TX 1001 (clear and opaque)	1,550 (2.3)	980 (18.4)	85 (185)	99 (210)	90	<1
TX 1501 HF (clear and opaque)	1,575 (2.3)	860 (16.1)	81 (178)	94 (201)	91	<1
TX 2001 (clear and opaque)	1,585 (2.3)	650 (12.2)	92 (198)	109 (228)	92	<1

\*Nonbreak as defined by ASTM D256 using 3.2-mm (1/8-in.) specimens.

Unless noted otherwise, all tests are run @ 23°C (73°F) and 50% relative humidity. Properties reported here are typical of average lots. Eastman makes no representation that the material in any particular shipment will conform exactly to the values given.

Conversions of metric/U.S. customary values may have been rounded off and therefore may not be exact conversions.



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