

Listing of Challenged Claims of the '263 Patent

Claim	Recited Claim Language/Limitations
1[pre].	A polymeric sheet composition, comprising:
1[a]	at least two outer layers A and C and an elastomeric inner layer B,
1[b]	wherein one or both of the outer layers A and C individually comprise a thermoplastic polymer having a flexural modulus of from about 1,000 MPa to 2,500 MPa, and
1[c]	the inner layer B is comprised of an elastomeric material having a hardness from about A 60 to D 85.
2.	The polymeric sheet composition of claim 1, wherein the A, B and C layers of the polymeric sheet composition have a combined thickness of from 250 microns to 2,000 microns and a flexural modulus of from 500 MPa to 1,500 MPa.
3.	The polymeric sheet composition of claim 2, wherein the outer layers A and C comprise one or more of a polyester, a co-polyester, a polycarbonate, a polyester polycarbonate blend, a polyurethane, a polyamide, a polyolefin, a microcrystalline polyamide, a co-polyester of terephthalic acid, cyclohexane dimethanol, and 2,2,4,4-tetramethyl-1,3-cyclobutanediol, a co-polyester of terephthalic acid, ethylene glycol and diethylene glycol, an aromatic polyurethane based on MDI and hexanediol, an aromatic polyurethane with aliphatic diols, a co-polymer of propylene, ethylene and C4 to C8 alpha olefin, a cycloaliphatic polyamide, a (meth) acrylic polymer, a vinyl polymer such a polyvinyl chloride, and a fluoropolymer.
4.	The polymeric sheet composition of claim 2, wherein the inner layer B comprises one or more of a polyurethane elastomer, an aromatic polyether polyurethane, a polyolefin elastomer, a polyester elastomer, a styrenic elastomer, a polyamide elastomer, a polyether polyamide (polypropylene oxide-based or polytetramethylene oxide-based), a cyclic olefin elastomer, an acrylic elastomer, an aromatic or aliphatic polyether, a polyester polyurethane, a siloxane elastomer, a polyether elastomer, a polyolefin elastomer, an olefin copolymer, and a fluoroelastomer.

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7.	The polymeric sheet composition of claim 2, wherein one or more of the A and C layers comprises a co-polyester having a: (a) a dicarboxylic acid component and (b) a diol component, wherein the-copolyester exhibits a glass transition temperature (Tg) from 80° C. to 150° C.
11[pre].	A polymeric sheet composition comprised of
11[a]	at least two rigid or hard outer layers A and C, at least two soft inner layers B and B', and at least a rigid or hard inner layer, D,
11[b]	wherein the rigid or hard layers, A, C and D, individually comprise a thermoplastic polymer having a modulus of from about 1,000 MPa to 2,500 MPa and
11[c]	the soft inner layers B and B' individually comprise an elastomeric material having a hardness from about A 60 to D 85.
12.	The polymeric sheet composition of claim 11, wherein the polymeric sheet composition has a combined thickness of from 250 microns to 2,000 microns and a flexural modulus of from 500 MPa to 1,500 MPa.
13.	The polymeric sheet composition of claim 12, wherein the rigid or hard layers, A, C and D individually comprise one or more of a polyester, a co-polyester, a polycarbonate, a polyester polycarbonate blend, a polyurethane, a polyamide, a polyolefin, a microcrystalline polyamide, a co-polyester of terephthalic and/or isophthalic acid, cyclohexane dimethanol, and 2,2,4,4-tetramethyl-1,3-cyclobutanediol, a co-polyester of terephthalic and/or isophthalic acid, ethylene glycol and diethylene glycol, an aromatic polyurethane based on MDI and hexanediol, an aromatic polyurethane with aliphatic diols, a co-polymer of propylene, ethylene and C4 to C8 alpha olefin, a cycloaliphatic polyamide, a (meth) acrylic polymer, a vinyl polymer such as a polyvinyl chloride, and a fluoropolymer.
14.	The polymeric sheet composition of claim 12, wherein the soft inner layers B and B' individually comprise one of more of a polyurethane elastomer, an aromatic polyether polyurethane, a polyolefin

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	elastomer, a polyester elastomer, a styrenic elastomer, an anhydride functionalized styrenic elastomer, a polyamide elastomer, a polyether polyamide (polypropylene oxide-based or polytetramethylene oxide-based), a cyclic olefin elastomer, an acrylic elastomer, an aromatic or aliphatic polyether, a polyester polyurethane, a siloxane elastomer, a polyether elastomer, a polyolefin elastomer, an olefin copolymer, an acrylic elastomer and a fluoroelastomer.
16.	The polymeric sheet composition of claim 14, wherein the rigid or hard layers, A, C and D have a combined thickness of from about 100 microns to about 750 microns.
18.	A dental appliance conformal to one or more teeth comprising a polymeric sheet composition according to claim 12.
31[pre].	A polymeric sheet composition, comprising:
1[a]	at least two outer layers A and C and an elastomeric inner layer B,
1[b]	wherein (i) one or both of the outer layers A and C individually comprise a thermoplastic polymer having a flexural modulus of from about 1,000 MPa to 2,500 Mpa,
1[c]	(ii) the inner layer B is comprised of an elastomeric material having a hardness from about A 60 to D 85,
1[d]	(iii) the A, B and C layers of the polymeric sheet composition have a combined thickness of from 250 microns to 2,000 microns and a flexural modulus of from 500 MPa to 1,500 Mpa, and
1[e]	(iv) one or more of the A and C layers comprises a co-polyester having a: (c) a dicarboxylic acid component and (d) a diol component, wherein the-copolyester exhibits a glass transition temperature (T_g) from 80° C. to 150° C.