

Thermoplastic Elastomers for Consumer Products

Monprene® TPEs add value to consumer products by improving product performance, aesthetics and tactile appeal. Overmolding Monprene onto a rigid plastic handle provides a soft grip that won't slip, even when wet. Monprene grips enhance the ergonomics of common household appliances and handheld devices as does anti-skid and anti-vibration parts made from Monprene TPEs.

Monprene CP-10100 Series and CP-11100 Series

- Standard grades developed specifically for consumer products
- Wide hardness range: 40 to 90 Shore A
- Available in low and high density
- Light, natural color for superior colorability
- Suitable for skin contact
- Resistant to household chemicals and cosmetics
- Broad thermal performance
- High flow for improved moldability
- Excellent adhesion to polyolefins
- Recommended for injection molding, insert, and 2K molding



Versatility meets functionality with Monprene TPEs:

Monprene is soft enough to provide a comfort grip on a toothbrush yet tough enough to withstand hours of chewing when molded into a dog toy. Monprene can be customized to suit the application which allows OEMs and processors more design flexibility.

- Personal Care: grips for toothbrushes and razors
- Writing Instruments: grips and erasers
- Sporting Goods: swim fins, grips, cushioning
- Hand-held Appliances and Tools: grips, buttons, anti-skid pads
- Pet Care: dog toys, groomer grips and accessories
- Toys

Monprene CP-10100 Series for Consumer Products - Low Density

Property	Test Method and Condition	Units	CP-10140	CP-10150	CP-10160	CP-10170	CP-10180	CP-10190
Hardness	ISO 868 5 sec del	Shore A	40	50	60	70	80	90
Specific Gravity	ISO 1183	-----	0.89	0.89	0.89	0.89	0.89	0.89
Tensile Stress (break)	ISO 37 across flow	psi (MPa)	960 (6.6)	1060 (7.3)	(1510) 10.4	(1800) 12.4	2030 (14)	2470 (17)
Tensile Elongation (Break)	ISO 37 across flow	%	920	870	880	885	840	810
Tensile Stress (100 % Strain)	ISO 37 across flow	psi (MPa)	130 (0.9)	170 (1.2)	240 (1.7)	320 (2.2)	470 (3.3)	710 (4.9)
Compression Set	ISO 815 Type A 22 hrs at 70°C	%	28	30	35	37	44	47
Tear Strength	ISO 34-B flow direction	kN/m	22	27	32	39	50	62
Viscosity	ASTM D3835 206 1/s, 200°C	Pa.s	209	222	233	240	260	268

Monprene CP-11100 Series for Consumer Products - High Density

Property	Test Method and Condition	Units	CP-11140	CP-11150	CP-11160	CP-11170	CP-11180	CP-11190
Hardness	ISO 868 5 sec del	Shore A	40	50	60	70	80	90
Specific Gravity	ISO 1183	-----	1.15	1.15	1.15	1.15	1.15	1.15
Tensile Stress (break)	ISO 37 across flow	psi (MPa)	95 (0.7)	145 (1.0)	210 (1.4)	290 (2.0)	450 (3.1)	750 (5.2)
Tensile Elongation (Break)	ISO 37 across flow	%	950	900	885	835	790	725
Tensile Stress (100 % Strain)	ISO 37 across flow	psi (MPa)	990 (6.8)	1250 (8.6)	1480 (10.4)	1580 (10.9)	1710 (11.8)	1945 (13.4)
Compression Set	ISO 815 Type A 22 hrs at 70°C	%	26	28	33	38	49	57
Tear Strength	ISO 34-B flow direction	kN/m	18	22	27	31	39	47
Viscosity	ASTM D3835 206 1/s, 200°C	Pa.s	200	207	196	194	218	248

- PVC, latex, BPA, and phthalate free
- RoHS, CONEG, and Prop 65 compliant
- REACH SVHC compliant



Americas
505 Central Avenue
Pawtucket, RI 02861
USA
401-725-8000
800-556-3862

Europe
Mijnweg 1
6167AC Geleen
Netherlands
31(0) 46 7020950

Asia
41 Shipyard Road
Singapore
(011) 65-6265-2544

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