

POLABOND™

Performance TPE for Overmolding



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Polabond™ 6041

Polabond™ 6041 series materials bring the performance of TPVs to polar substrate overmolding. In addition to providing excellent overmold adhesion to Polycarbonate, ABS, PC/ABS, RTPU, and PMMA, these materials also exhibit a highly desirable rubber-like tactile feel. This combination of features explains why Polabond™ 6041 products are commonly used in hand tools, hand-held electronics, sporting goods, and a wide range of other soft-touch consumer items. Due to their TPV-based chemistry, they excel in applications where chemical and oil resistance, weatherability, and property retention at high temperatures are critical. Polabond™ 6041 materials are available in an easily colorable off-white natural, as well as in black.

Polabond™ 6042

Based on a unique alloy technology, Polabond™ 6042 series materials are available in durometers from 40A to 70A and provide exceptional durability and mechanical properties mated with extremely robust bonding to polar substrates. Available in both black and an easy-to-color natural, these materials are well suited for use in hand tools, hand held medical devices, LED lighting applications, and consumer electronics utilizing overmold waterproofing and/or integrated push buttons. Polabond™ 6042 MD materials have been pre-tested to ISO 10993 and provide an excellent option for various healthcare applications requiring a soft touch feel or “rubber armor”.

For more information:
www.rtpcompany.com/polabond

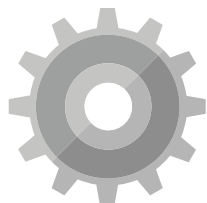
Polabond™ TPE Compounds

Polabond™ TPE compounds were designed for far more than just bonding to polar substrates; they were engineered with specific performance requirements in mind. More importantly, they reflect our commitment to drive TPE technology in support of our core commitments to our valued customers:



SOLUTIONS in-stock for you

Polabond™ 6041 and 6042 materials both provide excellent overmold adhesion to Polycarbonate, ABS, PC/ABS, RTPU, and PMMA, yet possess different performance characteristics to allow customers to meet varied application needs. A table of common physical properties is provided in the table below. Additional data regarding in-use capability and/or existing approvals is available on request.



CUSTOMIZATION for collaborative innovation

Does your project require something outside of the norm? Our history and expertise gives us some of the strongest custom compounding capability in the industry. Collaboration and communication are the cornerstones of successful development, and we make the process easy by combining local support with a centralized technical and commercial support staff that is dedicated to TPEs.



SERVICE that brings it all together

Customers like you are what drive our business. We pride ourselves on being big enough to compete with anyone, anywhere, without sacrificing the individual attention that is critical to launching successful programs. We strive to meet our commitments, and to provide straightforward advice and recommendations – even if they don't fit into our product line.

Product	Durometer	Sp. Gravity	Tensile strength (Mpa)	Tensile Elongation (%)	Tensile Modulus at 100% strain (Mpa)	Tear Strength (N/mm)	Comp. Set - 22H	
	ASTM D 2240	ASTM D 792	ASTM D 412	ASTM D 412	ASTM D 412	ASTM D 624	ASTM D 395, Method B, Type 2 @ 23C (%)	@ 70C (%)
Polabond™ 6042-40A HF	40A	1.07	5.5	500%	1.0	17.5	23	70
Polabond™ 6042-50A HF	50A	1.07	6.6	550%	1.4	23.6	24	70
Polabond™ 6042-60A HF	60A	1.10	7.3	500%	1.9	26.3	24	69
Polabond™ 6042-70A HF	70A	1.12	10.0	510%	2.6	33.3	25	69
Polabond™ 6042-40A MD	40A	1.09	5.5	550%	1.0	19.3	20	75
Polabond™ 6042-50A MD	50A	1.09	6.9	430%	1.5	26.3	20	75
Polabond™ 6042-60A MD	60A	1.11	8.7	490%	1.9	28.0	20	75
Polabond™ 6042-70A MD	70A	1.17	10.0	510%	2.6	39.4	25	80
Polabond™ 6041-55A	58A	1.04	4.7	570%	1.6	17.5		

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TPE

Product Portfolio



RTP Company compounds innovative solutions by utilizing the widest array of base Thermoplastic Elastomer (TPE) technologies in the industry. Each product line reflects our commitment to drive TPE technology in support of our core commitments to our valued customers: Solutions, Customization, and Service.

RTP 2700 SERIES

SEBS and SBC based compounds offering a broad range of options for properties, surface feel, clarity, and processing

PERMAPRENE™

TPV compounds designed with your needs in mind: from conventional high-performance TPV to value-optimized alloys

NYLABOND™

Industry leading nylon-bonding TPE technology; automotive approved products; unique value in power tool grips

POLABOND™

Exceptional TPE overmold adhesion to a wide range of engineering thermoplastics, with performance to match

SPECIALTY

Color, Flame Retardant, Wear Resistant, Structural, Conductive... no one does specialty TPE better than RTP Company



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