

3M Filtek™ P60 Posterior Restorative Dental Composite

Category : Polymer , Thermoset , Methacrylate

Material Notes:

Filtek P60 posterior restorative is an esthetic, light cured, radiopaque composite specifically designed for use in posterior direct or indirect restorations. Bonding to tooth structure is accomplished by using a dental adhesive system, such as 3M™ Single Bond or 3M™ Scotchbond Multi-Purpose Adhesive Systems. The restorative is available in a variety of shades and is packaged in traditional syringes. The matrix of this composite is a resin consisting of BIS-GMA (Bisphenol A diglycidyl ether dimethacrylate), UDMA (urethane dimethacrylate), and Bis-EMA (Bisphenol A polyethylene glycol diether dimethacrylate). This light-cured resin is filled with 61% (volume) silica/zirconia. The filler particle size distribution is 0.01 µm to 3.5 µm with an average particle size of 0.6 µm. Filtek P60 exhibits about 25% less volumetric shrinkage upon curing than 3M™ Z100™. An example from the manufacturer shows shrinkage of 1.8% after 5 minutes and 2.0% after 30 minutes; sample geometry will effect actual values. Wet fracture toughness is 1.5 MN/m. The wear rate in an in-vitro 3-body wear test gives 4.0 µLoss/39,000 cycles. Information provided by 3M. Contact 3M for further information before specifying or using this product.

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Filtek-P60-Posterior-Restorative-Dental-Composite.php

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	31	31	Bottom of sample; cure light intensity of 660 mWatts/cm². C2 shade.
	79	79	Top of sample; cure light intensity of 660 mWatts/cm². C2 shade.
Tensile Strength, Ultimate	80.0 MPa	11600 psi	Diametral tensile strength
Flexural Yield Strength	155 MPa	22500 psi	
Flexural Modulus	12.5 GPa	1810 ksi	
Compressive Yield Strength	395 MPa	57300 psi	
Adhesive Bond Strength	20.0 MPa	2900 psi	Bond strength to dentin using 3M Single Bond adhesive; C2 color

Processing Properties	Metric	English	Comments
Processing Temperature	20.0 °C	68.0 °F	Light cured

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