

# BALL VALVE SEAT MATERIAL



**RODEM**<sup>®</sup>  
 SMART SANITARY PROCESSES  
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Material	Description	Color
Reinforced Teflon <sup>®</sup> (RPTFE)	Reinforced Polytetrafluoroethylene (RPTFE) is the standard seat used in most non-cavity Tru-Flo ball valves. 15% glass filled reinforced Teflon <sup>®</sup> offers good chemical resistance and improved cycle life. The service temperature range is -50°F to 450°F.	Chalky White
Virgin Teflon <sup>®</sup> (PTFE)	Polytetrafluoroethylene (PTFE) has excellent chemical compatibility for almost all applications. The service temperature range is -50°F to 400°F.	White
TFM1600	High performance TFE offers better creep resistance, lower coefficient of friction than regular PTFE. Ideal for semi-conductor and high purity service. The service temperature range is -50°F to 500°F.	Semi-Translucent White
Stainless Steel Impregnated Teflon <sup>®</sup> (50/50)	Stainless Steel Impregnated Teflon <sup>®</sup> Seats combine the strength of metal with the lubricity of PTFE. 50% 316SS powder combined with 50% PTFE by weight, 15% SS by volume offers abrasion resistance of metal with higher pressure and temperature ratings than RPTFE. It is often used in steam and hot oil applications. The service temperature range is -20°F to 550°F.	Grey
UHMWPE	Ultra-high Molecular Weight Polyethylene is ideal for use in low level radiation service. It also meets the requirements of the tobacco industry where Teflon <sup>®</sup> is prohibited and it offers excellent abrasive resistance. The service temperature range is -70°F to 200°F.	Semi-Translucent White
Cavity Filler (PTFE, 50/50, UHMWPE)	Designed to reduce the possibility of contamination by entrapment of process fluids in the void normally found behind the ball and the valve body in ball valves. Ideal for applications where cross contamination is a concern. It is often used in food and viscous applications.	See Above



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