

# Caltex PP ER221K

Polypropylene

GS Caltex

Message:

Caltex PP ER221K is a Polypropylene material. It is available in Asia Pacific. Primary attribute of Caltex PP ER221K: Low Shrinkage.  
Typical application of Caltex PP ER221K: Automotive

General Information			
Features	Low Shrinkage		
Uses	Automotive Interior Trim		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.21	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	7.0	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	0.60	%	
Across Flow	0.55	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	91		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	19.6	MPa	ASTM D638
Tensile Elongation (Break)	> 110	%	ASTM D638
Flexural Modulus	2750	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
--	350	J/m	
-30°C	31	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	135	°C	ASTM D648
Additional Information	Nominal Value	Unit	
Processing Temperature	210 to 230	°C	

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