

Resinol PP Type O

Polypropylene
Spartech Plastics

Message:

Resinol PP Type O is a polypropylene product. It is available in North America. The application areas of Resinol PP Type O include cans, sporting goods and medical/health care.
Features include:
High resistance to environmental stress fracture (ESCR)
chemical resistance

General Information			
Features	High ESCR (Stress Cracking Resistance)		
	Good chemical resistance		
Uses	Industrial water tank		
	Sporting goods		
	Medical equipment		
Appearance	Natural color		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	0.903	g/cm ³	ASTM D792
--	0.905	g/cm ³	ASTM D1505
Environmental Stress-Cracking Resistance	325	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	85		ASTM D785
Durometer Hardness (Shore D)	68		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1240	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	22.1	MPa	ASTM D638
-- ¹	30.0	MPa	ASTM D638
Tensile Elongation ² (Yield)	6.5	%	ASTM D638
Compressive Strength	41.4	MPa	ASTM D695
Deformation Under Load (50°C, 14 MPa)	1.00	%	ASTM D621
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-18°C	18	J/m	ASTM D256
23°C	56	J/m	ASTM D256
Unnotched Izod Impact (23°C)	4300	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	102	°C	ASTM D648
Brittleness Temperature	-28.9	°C	ASTM D746
Vicat Softening Temperature	167	°C	ASTM D1525
CLTE - Flow	1.0E-4	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	6.5E+16	ohms·cm	ASTM D257
Dielectric Strength	24	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	2.20		ASTM D150
Dissipation Factor (1 MHz)	3.0E-4		ASTM D150
Additional Information			
Density, ASTM D1505: 0.9 to 0.91g/ccTensile Strength, ASTM 638, .2in/min: 3200 to 5300psiNotched Izod Impact Strength, ASTM D256, 73°F (23°C): .8 to 1.3 ft-lb/inBrittleness Temperature, ASTM D746: -20°F to 32°FHardness, Shore D: 55-70Modulus of Elasticity, ASTM D638: 180000 to 190000 psiCompressive Stress, ASTM D695: 5500 to 6500 psiElongation, ASTM D638, .2in/min:128-860%Volume Resistivity: >6.5E15 ohm-cmDielectric Strength, ASTM D149, step by step, 1/8in: 650 volts/milDielectric Constant, ASTM D150, 1E6 cycles: 2.1 to 2.3 volts/mil			
NOTE			
1.	5.1 mm/min		
2.	5.1 mm/min		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

