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Product Data Sheet & General Processing Conditions

RTP 0799 X 154371A

High Density Polyethylene (HDPE)

General					
Additive	• Thermal Stabilizer: Yes		• UV Stabilizer: No		
Applications	• Closures • Food Packaging Containers		• Housewares • Toys		
Revision Date	• March 2019				
Resin Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Density	0.956	g/cm³	0.956	g/cm³	ISO D792
Melt Index (190°C/2.16 kg)	20	g/10 min	20	g/10 min	ASTM D1238
Thermal	Typical Value	(English)	Typical Value	(SI)	Test Based On
Heat Deflection Temperature (0.45 MPa)	147	°F	64	°C	ISO 75-2/B
Peak Melting Temperature	271	°F	133	°C	ASTM D3418
Molded Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Stress at Yield	3300	psi	23	MPa	ISO 527-2/1A/50
Tensile Strain at Yield	10	%	10	%	ISO 527-2/1A/50
Tensile Strain at Break	> 100	%	> 100	%	ISO 527-2/1A/50
Flexural Modulus	140000	psi	970	MPa	ISO 178
Environmental Stress-Crack Resistance 122°F (50°C), 10% Igepal	2	hr	2	hr	ASTM D1693
Impact	Typical Value	(English)	Typical Value	(SI)	Test Based On
Notched Izod Impact Strength	1.9	ft-lb/in²	4.0	kJ/m²	ISO 180/1A