Quadrant EPP HDPE Data Sheet

High Density Polyethylene

Supplied by Quadrant Engineering Plastic Products

The technical data sheet with complete property values for Quadrant EPP HDPE Data Sheet is available to members of the Prospector Plastics Database

General

Material Status	Commercial: Active
Availability	North America
Features	Acid Resistant, Alkali Resistant, Alcohol Resistant, Machinable

Agency Ratings

Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
Water Absorption			ASTM D570
24 hr		%	
Saturation		%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus		psi	ASTM D638
Tensile Strength (Ultimate)		psi	ASTM D638
Tensile Elongation (Break)		%	ASTM D638
Flexural Modulus		psi	ASTM D790
Flexural Strength (Yield)		psi	ASTM D790
Compressive Modulus		psi	ASTM D695
Compressive Strength (10% Strain, 73°F)		psi	ASTM D695
Coefficient of Friction (vs. Steel - Static)			Internal Method
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact		ft·lb/in	ASTM D256A
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)			ASTM D2240

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)		°F	ASTM D648
Maximum Use Temperature - Long Term, Air		°F	
Peak Crystallization Temperature (DSC)		°F	ASTM D3418
CLTE - Flow[2] (-40 to 300°F)		in/in/°F	ASTM E831
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity		ohm	ASTM D257
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.125 in, Estimated Rating)			UL 94

Related Terminology

Product names can be difficult to match. You may have searched any one of these terms to find this product: Quadrant EPP HDPE, Quadrant EPP , QuadrantEPPHDPE, QuadrantEPP, EPPHDPE, EPP, HDPE, Polyethylene, High Density, Polyethylene High Density, Polyethylene, PE, Quadrant, PolyethyleneHighDensity

Agency Ratings

This plastic material has 1 certifications from the following agencies (the number in parentheses shows the number of certifications for that agency): FDA (1).

Notes

[1]Typical properties: these are not to be construed as specifications.

[2]68°F