



K0293
North America

KRATON™ D1161 P Polymer

Data Document

Identifier : K293DDy25U

Description

Kraton D1161 P is a clear, linear triblock copolymer based on styrene and isoprene, with a polystyrene content of 15%. It is supplied from North America in the physical form identified below.

- Kraton D1161 PT - supplied as a dusted dense pellet with talc
- Kraton D1161 PTM - supplied as a powder dusted with silica
- Kraton D1161 PK - supplied as a dusted dense pellet with kaolin
- Kraton D1161 PKM - supplied as a powder dusted with silica

Kraton D1161 PT and Kraton D1161 PK are variations of the same polymer, produced on the same production assets.

Sales Specifications

| Property | Test Method | Units | Sales Specification Range | Notes |
|--------------------------------|---|----------|---------------------------|-------|
| Antioxidant | KM 08 | %m | 0.08 TO 0.30 | |
| Dust, Fine Talc | BAM 908 | %w | 0.20 TO 0.40 | a |
| Dust, Kaolin | BAM 908 | %w | 0.10 TO 0.50 | c |
| Melt Flow, 200C/5000g | ASTM D1238 | g/10 min | 8.5 TO 18.5 | |
| Vis, Sol (Toluene) 25.0%w @25C | BAM 922 | cP | 800 TO 1,600 | |
| Polystyrene Content | KM 03 | %m | 14.0 TO 17.0 | |
| Total Extractables | KM 05 | %m | <= 1.0 | |
| Volatile Matter | KM 04 | %m | <= 0.3 | |
| Ash (PTM) | ISO 247 | %m | 3.0 TO 5.0 | b |
| Ash (PKM) | ISO 247 | %m | 3.0 TO 5.0 | d |
| a | Talc | | | |
| b | D1161 PTM milled in Europe. The final dusting level is a combination of the talc from the original D1161 PT plus silica added during the milling process. | | | |
| c | Kaolin | | | |
| d | D1161 PKM milled in Europe. The final dusting level is a combination of the kaolin from the original D1161 PK plus silica added during the milling process. | | | |

Typical Properties (These are typical values and may not routinely be measured on finished product)

| Property | Test Method | Units | Typical Value | Notes |
|------------------------|---|---------------|---------------|-------|
| Solution Viscosity | BAM 922 | cps | 1200 | d |
| 300% Modulus | ASTM D-412 | psi | 130 | c |
| Specific Gravity | ASTM D 792 | | 0.92 | |
| Hardness | ASTM 2240 | Shore A (10s) | 32 | b |
| Tensile strength | ASTM D-412 | psi | 3100 | c |
| Diblock content | n/a | | 19 | |
| Styrene / Rubber ratio | n/a | | 15/85 | |
| Elongation at break | ASTM D-412 | % | 1300 | c |
| Melt Index 200C, 5 kg | ASTM D 1238 | gms/10 min. | 13.5 | |
| b | Typical values on polymer compression molded at 300F. | | | |
| c | Measured on films cast from a solution in toluene. | | | |
| d | 25%w toluene solution at 25C. | | | |

Packaging

Kraton's products are available in a number of different package types.